CASSETTE RECEIVER

KRC-535/865

SERVICE MANUAL

KENWOOD

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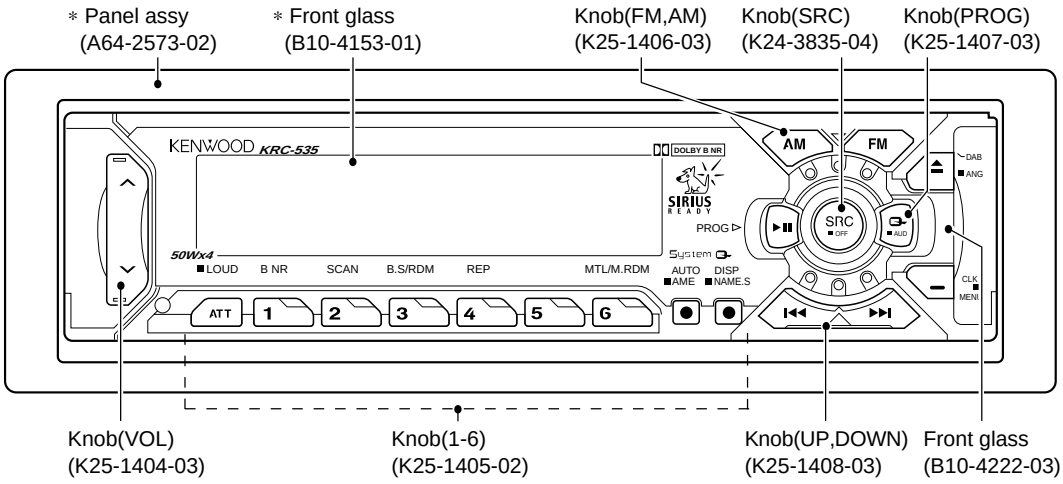
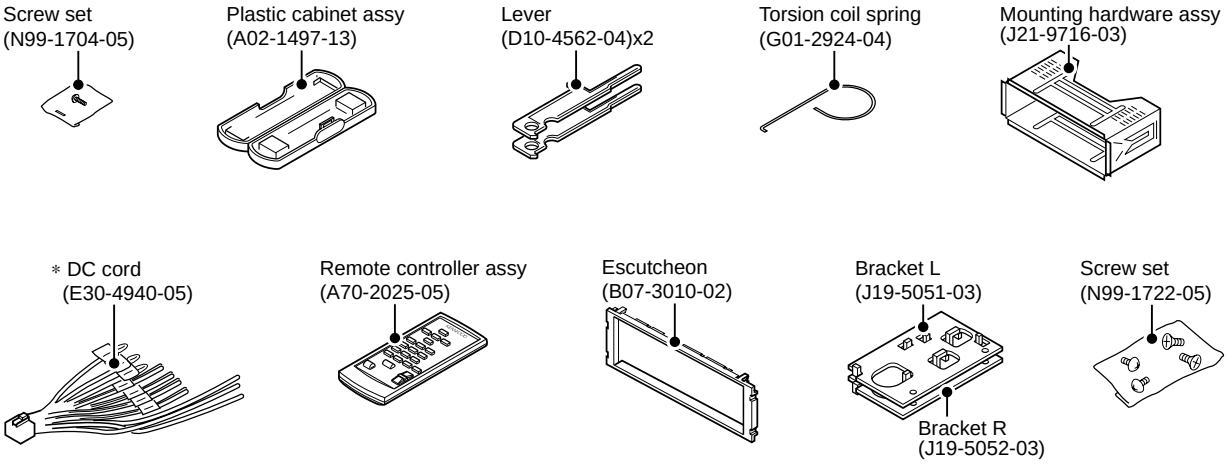
The CASSETTE MECHANISM OPERATION DESCRIPTION is the same model D40-1122-05.
Please refer to the service manual for model D40-1122-05(B51-7542-00).

● **KRC-535**



∗ Refer to the PARTS LIST



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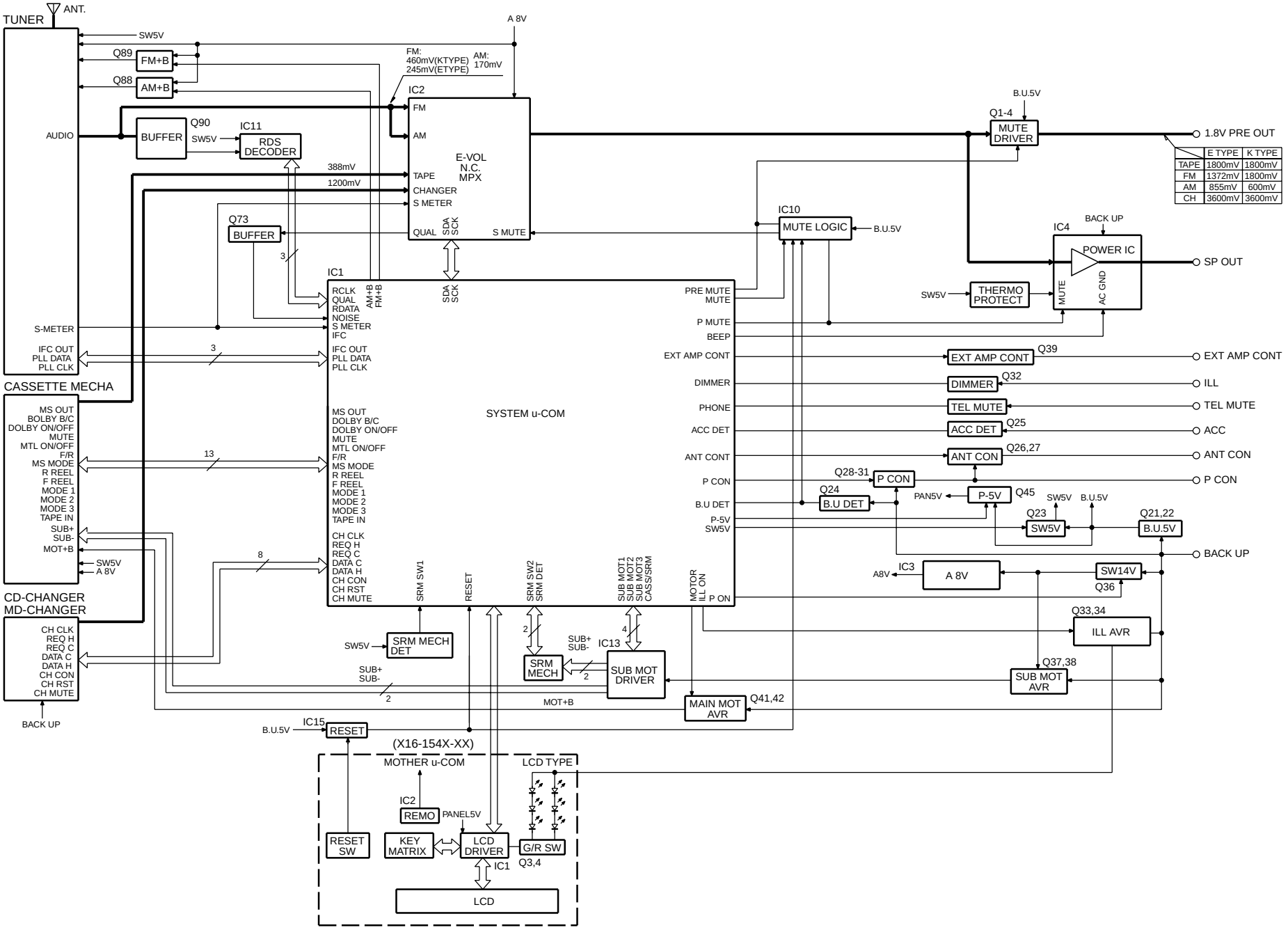
KRC-535/865

BLOCK DIAGRAM



COMPONENT DESCRIPTION

● SWITCH UNIT(X16-1540-XX)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	LCD DRIVER with Key Matrix	
IC2	Remote Control IC	
Q1	Key Detection SW	Q2 starts key scan in M&T.
Q3, 4	Key Illumination SW	Lights key illumination in Red when the base of Q3 is ON. Lights key illumination in Green when the base of Q4 is "H".
Q5	VLCD Reference Voltage Supply	Constant voltage circuit.
Q6	Remote Control IC Power Supply	Activates remote control when the base of Q6 is "L".
Q7	Dimmer SW	The base of Q7 is normally "H" but becomes "⎍⎍⎍" when DIMMER is ON.

● SYNTHESIZER UNIT(X14-6440-XX)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	System µ-com	
IC2	E-VOL, N.C, MPX	
IC3	Regulator IC for Audio 8V	
IC4	Power IC	
IC10	Mute logic IC	
IC13	Motor driver IC	
IC15	Reset IC	
Q1~4	PRE OUT MUTE SW	Pre outs are muted when the base goes "H".
Q18~20	Audio 8V AVR	Inverted darlington connection Q20 is turned ON when Q18's base goes "H".
Q21, 22	B.U 5V AVR	Inverted darlington connection Q22 is turned ON when Q21's base goes "H".
Q23	SW 5V	ON when the base goes "L".
Q24	B.U detection	ON when the base goes "H" during B.U applied.
Q25	ACC detection	ON when the base goes "H" during ACC applied.
Q26, 27	P-ANT SW	Q26 is turned ON when Q27's base goes "H".
Q28~31	P-CON SW	Q28 is turned ON when Q31's base goes "H".
Q32	Dimmer SW	ON when the base goes "H" while vehicle small lamps turn on.
Q33,34,44	Illumination AVR	ON when Q44's base goes "H".
Q36	SW 14V	ON when base goes "H".
Q37,38	Motor driver supply	Q38 is turned ON when Q37's base goes "H".
Q39	External Amp Control	ON when the base goes "L".
Q41, 42	Cassette mecha main motor supply SW	Q42 is turned ON when Q41's base goes "H".
Q43	Motor driver's voltage SW	Base "H" ⋯ cassette mecha's submotor Base "L" ⋯ mask mecha's motor.
Q45,46	Panel 5V SW	Q45 is turned ON when Q46's base goes "H".
Q71	Pre out mute driver	ON when the base goes "L".
Q72	E-VOL Mute SW	ON when the base goes "H".
Q73	Noise buffer	
Q85	IFC out buffer	
Q86,88	AM+B SW	Q88 is turned ON when Q86's base goes "H".
Q87,89	FM+B SW	Q89 is turned ON when Q87's base goes "H".

● DOLBY UNIT(X87-3022-71)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	Playback EQ, Dolby & Blank Detection	
Q1	Constant Switching in Blank Detection	Switches the time constant according to the PLAY or FF/REW mode.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● UPD703033GC138 (IC1: X14-)

SYSTEM MICROCOMPUTER

Pin	Name	I/O	Purpose	Operation Description
1	AM+B	O	AM power supply terminal.	During AM operation: H.
2	FM+B	O	FM power supply terminal.	During FM operation: H. Last FM with RDS model: H
3	AFS	O	Constant switching when noise is detected.	During FM seek or AM search: L. During reception: H.
4	PLL-DATA	I/O	DATA input/output terminal from/to F/E.	
5	PLL-CLK	I/O	CLOCK input/output terminal from/to F/E.	
6	Evdd	-	Positive power supply terminal.	
7	GND	-	Grounding terminal.	
8	N.C	O	No connection.	
9	BEEP	O	Beep output terminal.	
10	REMO	I	Remote control input terminal.	
11	P-ON	O	SW 14 V control terminal.	Power ON: H. Power OFF: L.
12	P-STBY	O	Power IC STBY terminal control.	Power IC OFF: L. Power IC ON: H. During reset: Input.
13	IC2-SDA	I/O	IC2 DATA line.	
14	IC2-SCK	O	IC2 CLOCK line.	
15	P-MUTE	O	Power IC muting terminal.	Power OFF: L. All OFF: L. During TEL muting: L.
16	PRE-MUTE	O	Pre-Out muting terminal.	During momentary power down: L.
17	D/A-SDA/DIM-CON	O	D/A data line. (V-LED)	
18	TEST	-	Test pin.	
19	P-CON	O	Power control terminal.	Power ON: H. Power OFF: L.
20	ANT-CON	O	Antenna control terminal.	TUNER, TI ON: H
21	MUTE	O	Muting terminal.	ON: Open. OFF: L. The time constant is 0.48 ms with all models.
22	N.C	O	No connection.	
23	ACC-DET	I	Acc detection terminal.	Acc detected: L. Acc not detected: H.
24	DIMMER	I	Small detection terminal.	ON: L. OFF: H.
25	SW-5V	O	5 V power supply terminal.	ON: L. OFF: H.
26	CH-MUTE	I	Muting request from CH.	ON: H. OFF: L.
27	CH-CON	O	CH control output.	ON: H. OFF: L.
28	CH-REQH	O	Request output to CH.	Requested: L.
29	CH-RST	O	Reset output to CH.	Normal: L. When the system is reset, turns H then L in 400 ms after recovery from reset.
30	EXT-AMP-CONT	O	External amplifier control terminal (In 200 ms).	L 40 ms: Bass boost OFF. L 70 ms: Bass boost LOW. L 100 ms: Bass boost HIGH.
31	RESET	I	Reset input terminal	Normal: H. Reset: L.
32	XT1	I	Sub-clock connection terminal.	The clock count is active even when Power is OFF.
33	XT2	-	Sub-clock connection terminal.	
34	REGC	-	Output terminal for the capacitor in the regulator in µ-COM.	
35	X2	-	Main clock connection terminal.	Power ON: Oscillated. Power OFF or momentary power down: Oscillation stopped.
36	X1	I	Main clock connection terminal.	
37	Vss	-	Grounding terminal.	
38	Vdd	-	Positive power supply terminal.	
39	CLKOUT	O	Internal System Clock output.	
40	N.C	O	No connection.	
41	MOTOR	O	Cassette mechanism main motor output terminal.	When the motor is running: H. When it is stopped: L.
42	MODE3	I	Cassette mechanism mode detection terminal.	
43	MODE1	I	Cassette mechanism mode detection terminal.	
44	MODE2	I	Cassette mechanism mode detection terminal.	
45	N.C	O	Outputs Low. No connection.	
46	SUB1	O	Sub-motor output terminal (1).	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin	Name	I/O	Purpose	Operation Description
47	SUB2	O	Sub-motor output terminal (2).	
48	SUB3	O	Sub-motor output terminal (3).	
49	CAS/SRM	O	Cassette mechanism/SRM mechanism voltage switching terminal.	Cassette mechanism: H. SRM mechanism: L.
50	N.C	O	Outputs Low.	No connection.
51	N.C	O	Outputs Low.	No connection.
52	ILL-ON	O	FL +B output terminal.	ON: H, OFF: L
53	PAN-5V	O	Panel 5 V control terminal.	Panel detected: H Panel not detected: L
54	N.C	O	Outputs Low.	No connection.
55	BVdd	-	Positive power supply terminal.	
56	BVss	-	Grounding terminal.	
57	TYPE1	I	Destination type switching port.	
58	TYPE0	I	Destination type switching port.	
59	N.C	O	Outputs Low. No connection.	
60	N.C	O	Outputs Low. No connection.	
61	ST TYPE1	I	IC2 destination type terminal.	Default: L.
62	ST TYPE0	I	IC2 destination type terminal.	Default: L.
63	SRM-SW1	I	Panel position detection switch 1.	
64	D/A-SDA	O	D/A clock line. (V-LED)	Panel detached: L. Momentary power down: L.
65	L CE	I/O	CE terminal for LCD driver.	
66	SRM-SW3	I	Panel position detection switch 3.	
67	SRM-SW2	I	Panel position detection switch 2.	
68	FWD/REV	O	TAPE EQ input switching terminal.	FWD: L. REW: H.
69	MS-CONT	I/O	Constant switching terminal in case of blank detection.	During TAPE PLAY: H. During TAPE FF/REW or other than TAPE input: L. Cassette mechanism detected: L. Cassette mechanism not detected: H.
70	AVCONT	O	AD reference voltage control output.	Same timing as P-ON. H during operation.
71	Avdd	-	Positive power supply terminal.	
72	Avss	-	Grounding terminal.	
73	Avref	I	Reference voltage supply terminal for A/D converter.	
74	PHONE	I	PHONE detection terminal.	TEL MUTE: No more than 1 V. NAVI MUTE:2.5 V or more.
75	R-REEL	I	Cassette mechanism reel pulse input (REV).	Vth = 2.5 V.
76	F-REEL	I	Cassette mechanism reel pulse input (FWD).	Vth = 2.5 V.
77	N.C	I	No connection.	Connected to GND.
78	SRM-DET	I	SRM mechanism detection.	SRM mechanism detected: L.
79	NOISE	I	FM noise detection terminal.	Model without RDS: Connected to GND.
80	S-METER	I	Signal meter detection terminal.	
81	R-DATA	I	RDS decoder DATA input terminal.	Model without RDS and RBDS: Connected to GND.
82	R-QUAL	I	RDS decoder QUAL input terminal.	Model without RDS and RBDS: Connected to GND.
83	IFC-OUT	I	F/E IFC OUT input terminal.	Station detected: L.
84	MUSIC	I	Music blank detection input.	Music signal detected: L. Music signal not detected: H.
85	PACK-DET	I	Cassette mechanism pack detection terminal.	Cassette pack detected: L. Cassette pack not detected: H.
86	DOLBY	O	Dolby ON/OFF switching.	ON: H. OFF: L.
87	R-CLK	I	RDS decoder CLK input terminal.	Model without RDS and RBDS: Connected to GND.
88	CH-REQC	I	Request input from CH.	ON: L.
89	KEY REQ	I	Communication request from LCD driver.	
90	N.C	I	No connection.	Connected to GND.
91	EQ-MUTE	O	EQ muting switching.	During TAPE PLAY: L. During TAPE FF/REW: H. Other than TAPE input: H.

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin	Name	I/O	Purpose	Operation Description
92	MTL	O	NORMAL/METAL switching.	NORMAL: H. METAL: L.
93	BU-DET	I	Momentary power down detection terminal.	Back-Up detected: L Back-Up not detected (momentary power down): H.
94	CH-DATAC	I	DATA input terminal from CH.	
95	CH-DATAH	O	DATA output terminal to CH.	
96	CH-CLK	I/O	CLOCK input/output terminal from/to CH.	
97	L-DATA L	I	DATA line from LCD driver.	
98	L-DATA S	I/O	DATA line to LCD driver.	
99	L-CLK	I/O	CLK line to LCD driver.	Panel detected: L
100	N.C	O	Outputs Low. No connection.	

TEST MODE

M&T-SRT Model Test Mode

1. How to enter the test mode

- While holding the FM and Preset 6 keys, reset the unit.

2. How to exit from the test mode

- While holding the Preset 6 key, reset the unit.
- (Note) The test mode cannot terminated by Acc OFF, power OFF or momentary power down.

3. Initial status in the test mode

- Sources: All OFF.
- Display: All segments are lit.
- Volume: -10 dB (displayed as 30)
- Loudness: OFF
- CRSC: OFF regardless of the presence of switching function.
- SYSTEM Q: Flat.
- Blank Skip: OFF. (C/R model)
- LED: White for no scanning. (VLCD model)

4. Special display in Tuner mode

- When any of the following messages is displayed in Tuner mode, the front end may be abnormal.
- "TNE 2P NG": The EEPROM is set to the default (unstable values) because the F/E was shipped without passing through the adjustment process, etc.
- "TNCON NG": Communication with the F/E is not possible.

5. Forced switching of K3I

- Each press of the Preset 6 key in Tuner mode should switch K3I from AUTO → Forced Wide → Forced Middle → Forced Narrow → AUTO. The initial status is AUTO and the display shows these modes as follows.
- AUTO : FMA
- Forced Wide : FMW
- Forced Middle : FMM
- Forced Narrow : FMN

6. Test mode specifications of the CD receiver

- Forced ejection is inhibited in the reset start operation. When the unit is reset while a CD is loaded in it, the CD is not recognized by resetting.
- Each press of the Track Up key jumps to the following track numbers.
  No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 14 → No. 9 (The cycle restarts from here.)
- Each press of the Track Down key jumps to the previous track number to the track being played.

7. Audio-related specifications

- A short press of the Q key initiates the audio adjustment mode.
- Pressing the ∗ key on the remote initiates the audio adjustment mode.
- Continuous holding of a remote control key is inhibited.
- Bass, Middle and Treble are adjusted in 3 steps of Min/Center/Max with the Track Up/Down keys.
- Balance is adjusted in 3 steps of Left Max/Center/Right Max with the Track Up/Down keys.
- Fader is adjusted in 3 steps of Rear Max/Center/Front Max with the Track Up/Down keys.
- HPF is adjusted in 2 steps of Through/220 Hz with the Track Up/Down keys.
- LPF is adjusted in 2 steps of Through/120 Hz with the Track Up/Down keys.
- Bass f, Bass Q, Bass EXT, Middle f, Middle Q and Treble f are not dealt with by the audio adjustment.

8. Menu-related specifications

- A short press of the CLK key initiates the Menu mode.
- Pressing the DNPP/SBF key on the remote initiates the Menu mode.
- Continuous holding of a remote control key is inhibited.
- Calendar adjustment, calendar display switching and calendar memo are eliminated from the targets of continuous key holding. (FL model).
- In the color adjustment mode, pressing the Preset 1 key sets Red, 2 sets Blue, 3 sets Green and 4 sets Green. (VLCD model)
- Contrast is adjusted in 3 steps of 0/5/10 and the default is 5. (VLCD/LCD model)
- Brightness is adjusted in 3 steps of 0/5/10 and the default is 10. (Normal FL model)

9. Backup current measurement

- When the unit is reset while Acc is OFF (i.e. by turning Back-Up ON), the MUTE terminal goes OFF in 2 seconds in place of 15 second. (The panel, CD mechanism and TAPE mechanism are not activated at this time.)

TEST MODE

10. Special display when the display is All ON

Pressing the Preset keys while the power is All OFF displays the following information.

PRESET1	Version display (8 digits, Month/Day/Hour/Minute) (Display) SYS xxxxxxxx System microcomputer PAN xxxxxxxx Panel microcomputer
PRESET2	Serial No. display (8 digits) (Note) CD/R K type eXcelon model (Display) SNo. xxxxxxxx
PRESET3	Short press: View power ON time. (The All OFF period is not counted.) Long press/hold: Clear power ON time. (Display) PonTim xxxxx Max. 65535 (hours)
PRESET4	Short press: Display TAPE/CD/ MD operation time. Long press/hold: Clear TAPE/CD/MD operation time. (Display) CDTime xxxxx (CD/R) TapTim xxxxx (C/R) Max. 65535 (hours)
PRESET5	Short press: Display TAPE/CD/ MD ejection count. Long press/hold: Clear TAPE/CD/MD ejection count. (Display) EjeTim xxxxx Max. 65535 (times)
PRESET6	Short press: Display Panel open/close count. Long press/hold: Clear Panel open/close count. (Display) PnCnt xxxxx Max. 655350 (times)

11. Other specifications

- Automatic panel closing when a tape/CD is inserted is inhibited. (M&T model)
- Panel operation by turning power OFF/ON is inhibited. (M&T model)
- Pressing the ATT key opens or closes the panel. (M&T model)
- Messages such as "CODE OFF" are not displayed when power is turned ON.
- Pressing the TI (AUTO) key during changer operation turns 2zone ON. 2zone can be turned OFF by pressing the TI (AUTO) key again. The P/S dot lights while 2 zone is ON.
- Pressing and holding the CLK key for a second in the All OFF status the Mask Key (security) write mode.

■ Security-related information

- **Forced Power ON mode (All models)**
  Even when the security (Mask key) is approved, resetting the unit while holding the ATT and Preset 4 keys makes it possible to turn the power ON for 30 minutes. After 30 minutes have elapsed, it is not possible to return to the previous condition unless the unit is reset again.
- **Method of registration of the security code after EEPROM (Tuner Unit Ass'y) replacement (Code security model)**
  1. Enter the test mode. (See 1 How to enter the test mode)
  2. Press the CLK key to enter the security registration mode.
  3. Enter the code using the Preset 1/2/3/4 keys.
     Example: To enter "3510"
     - Press the Preset 1 key 4 times.
     - Press the Preset 2 key 6 times.
     - Press the Preset 3 key twice.
     - Press the Preset 4 key once.
  4. Press and hold the DISP key for 3 seconds until "APPROVED" is displayed.
  5. Exit from the test mode. (See 2 How to exit from the test mode)
     (Note) All Clear is not applicable to the security code of this model.
- **Simplified method of clearing the security code (K Type only)**
  1. While the code entry is requested, press and hold the VOL UP key for 3 seconds while holding the DISP key pressed.(This should turn ---- off.)
  2. Enter "KCAR" from the remote. (Same way as the 00 model)
     Press the 5 key on the remote twice, then press the Track Up key. (This enters "K")
     Press the 2 key on the remote 3 times, then press the Track Up key. (This enters "C")
     Press the 2 key on the remote once, then press the Track Up key. (This enters "A")
     Press the 7 key on the remote twice, then press the Track Up key. (This enters "R")
  3. The security code is cleared and the unit enters the All OFF mode.
  4. If you commit a mistake in the code entry, the unit enters the code request mode again.

TEST MODE

- **Method of writing the Mask key while the EEPROM is in the initial status**
  1. Enter the test mode. (See 1 How to enter the test mode)
  2. Press the CLK key to enter the Mask key registration mode. "TRANSMIT1" should be displayed now. The display at this time should show "< >" in place of "[ ]".
  3. Point the Mask key remote toward the light sensor, and press and hold its key for more than 0.5 second.
  4. When "TRANSMIT2" is displayed, press and hold the key on the Mask key remote for more than 0.5 second again. The first and second counter codes are not compared at this time.
  5. When "APPROVED" is displayed, the write operation is complete. Now the demonstration mode is initiated and the test mode is terminated.
     (Note) In the same way as previous models, if 30 minutes have elapsed with no code written, an error occurs and the power is turned OFF.
- **Method of initializing the Mask key (How to reset the unit from the Mask key approved condition to the factory condition)**
  1. Enter the test mode. (See 1 How to enter the test mode)
  2. "TRANSMIT1" is displayed and the Mask key entry request mode is initiated.
     The display at this time should show "∗∗" in place of "[ ]".
  3. Press and hold the key on the Master key remote for more than 3 seconds.
  4. When "TRANSMIT2" is displayed, press and hold the key on the Master key remote for more than 3 seconds.
  5. When "APPROVED" is displayed, the Mask key is cleared, the demonstration mode is initiated, the test mode is terminated and the unit returns to the factory condition.
- **Method of clearing all Mask key-related data**
  1. Enter the test mode. (See 1 How to enter the test mode)
  2. Press the CLK key to enter the Mask key registration mode. "TRANSMIT1" should be displayed now.
  3. Point the Master key remote toward the light sensor, and press and hold its key for more than 3 seconds (until the level display shows the full condition).
  4. When "TRANSMIT2" is displayed, hold the key on the Mask key remote for more than 3 seconds again. If "TRANSMIT1" is displayed in place of "TRANSMIT2", restart the procedure from step 3.
  5. When "APPROVED" is displayed, all security data is cleared and the unit returns to the condition before Mask key writing with the EEPROM in the initial status.

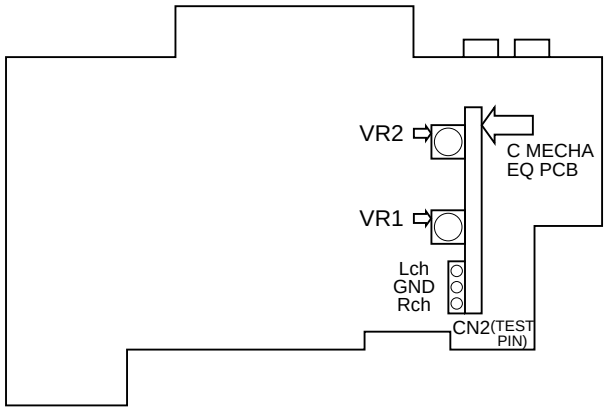
ADJUSTMENT

Set the controls and switches as follows.
BALANCE :center position BASS :center position LOUD :OFF DOLBY NR :OFF
FADER :center position TREBLE :center position

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION							
[1]	AZIMUTH	TCC-153 10kHz	Connect an AC voltmeter to SP OUT	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each Lch/Rch or FWD/RVS becomes maximum	
[2]	PLAY BACK LEVEL	TCC-130	Connect an AC voltmeter to CN2	TAPE PLAY	VR1 (L) VR2 (R) (X87)	387.5mV (-6dBm)	

■ Adjustment Points

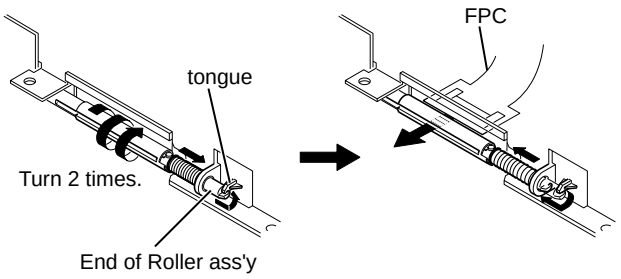
- **Adjusts Dolby Level**
  Reactivates TCC-130 (Dolby Level Tape), and adjusts VR1 so that the test pin output of Lch becomes -6dBm (387.5 mV). Adjusts VR2 so that the test pin output of Rch also becomes -6dBm.



ATTENTION

Assembly of FPC(Flexible PC board) onto Roller ass'y

Turn Roller ass'y by 2 times.
Hook the end of Roller ass'y to the tongue.
Insert the FPC into the slit of Roller ass'y then release the end of Roller ass'y and the tongue.



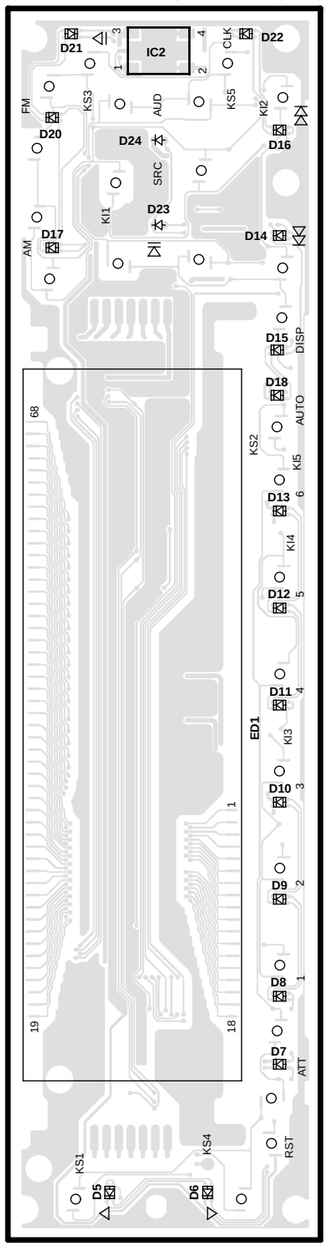
PC BOARD (Component Side View)

SWITCH UNIT

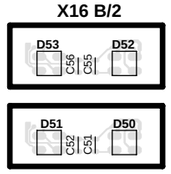
SWITCH UNIT
(X16-1540-XX)

Ref. NO.		Address
IC	Q	
2		2B

X16-1540-10 A/2 (J74-1305-12)

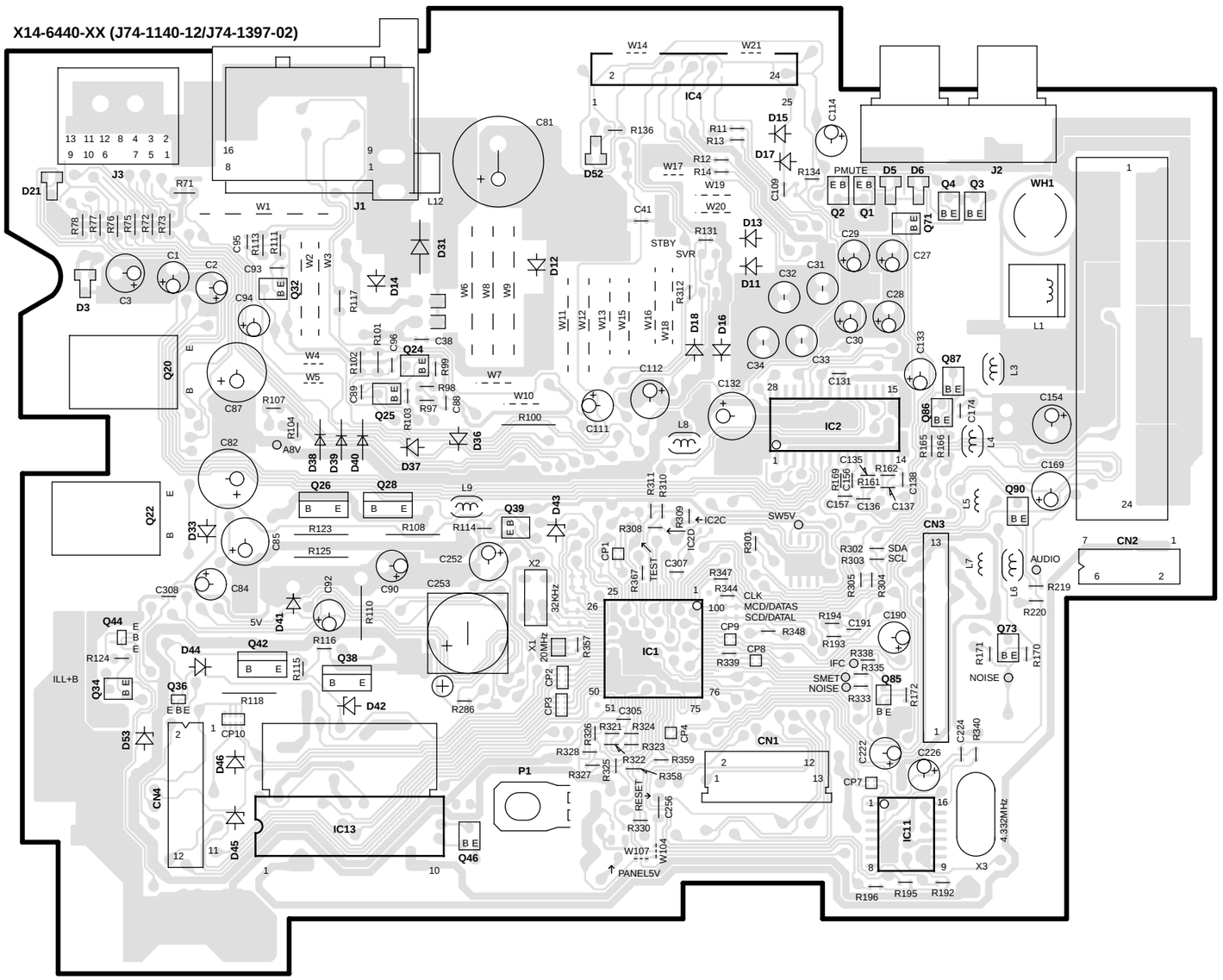


X16 B/2



SYNTHESIZER UNIT

X14-6440-XX (J74-1140-12/J74-1397-02)



SYNTHESIZER UNIT
(X14-6440-XX)

Ref. NO.		Address
IC	Q	
1		4F
2		3G
4		2F
11		5G
13		5E
	1	2G
	2	2G
	3	2G
	4	2G
	20	3D
	22	4D
	24	3E
	25	3E
	26	3D
	28	3E
	32	2D
	34	4D
	36	4D
	38	4E
	39	4E
	42	4D
	44	4D
	46	5E
	71	2G
	73	4H
	85	4G
	86	3G
	87	3G
	90	4H

Refer to the schematic diagram for the values of resistors and capacitors.

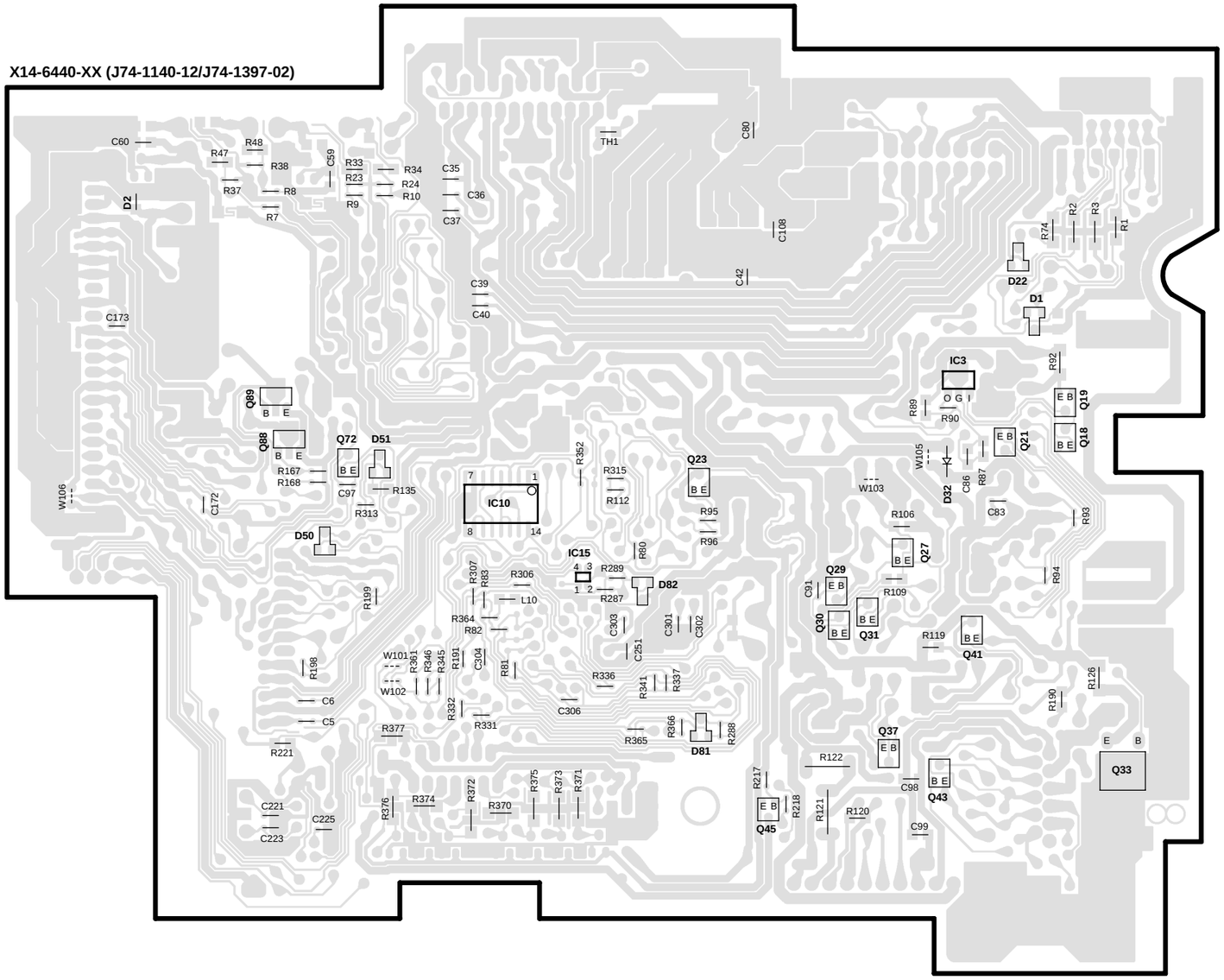
PC BOARD (Foil Side View)

SYNTHESIZER UNIT

SYNTHESIZER UNIT
(X14-6440-XX)

Ref. NO.		Address
IC	Q	
3		3O
10		4M
15		4M
	18	3O
	19	3O
	21	3O
	23	3N
	27	4O
	29	4N
	30	4N
	31	4N
	33	5P
	37	5O
	41	4O
	43	5O
	45	5N
	72	3L
	88	3L
	89	3L

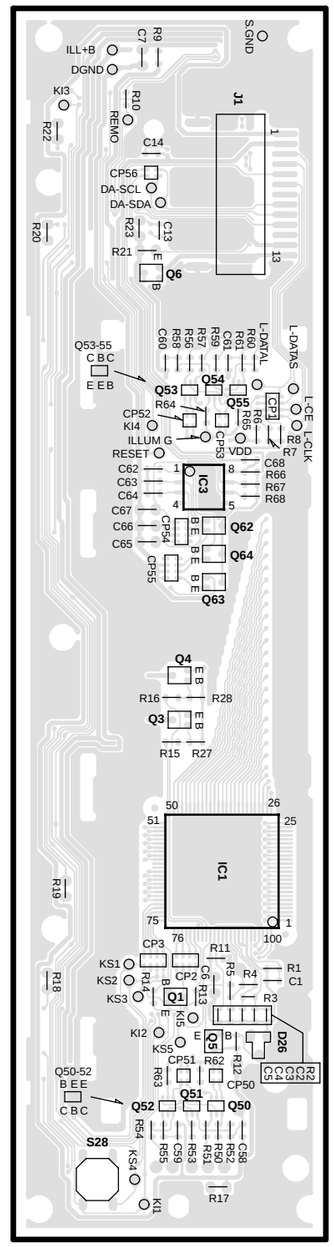
X14-6440-XX (J74-1140-12/J74-1397-02)



Refer to the schematic diagram for the values of resistors and capacitors.

SWITCH UNIT

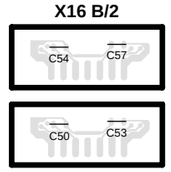
X16-1540-10 A/2 (J74-1305-12)



SWITCH UNIT
(X16-1540-XX)

Ref. NO.		Address
IC	Q	
1		5Q
3		3Q
	1	5Q
	3	4Q
	4	4Q
	5	5Q
	6	2Q
	50	6Q
	51	6Q
	52	6Q
	53	3Q
	54	3Q
	55	3Q
	62	3Q
	63	3Q
	64	3Q

X16 B/2

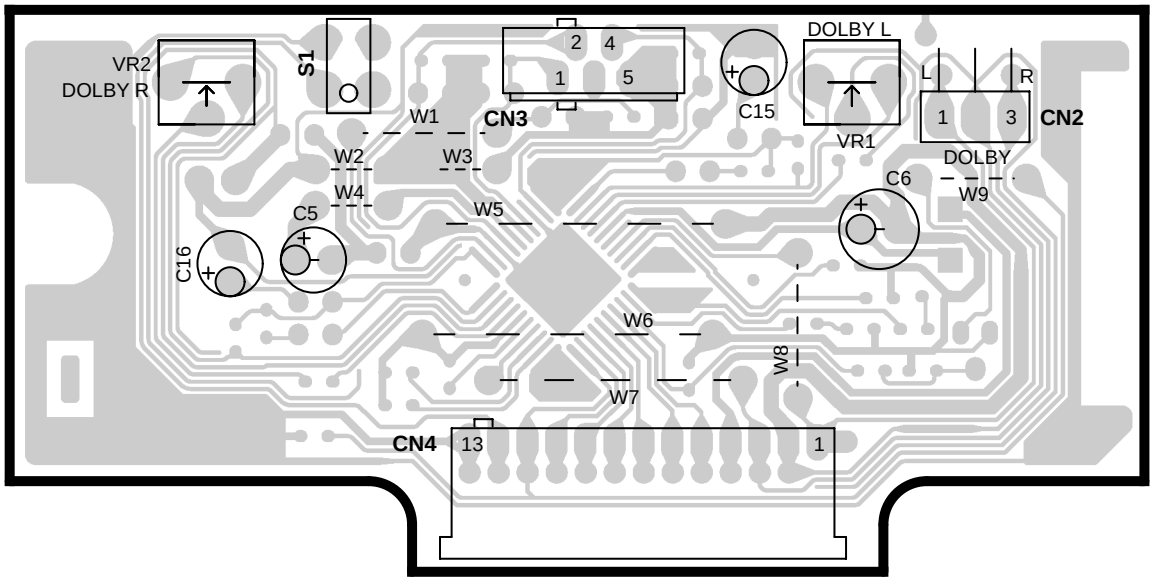


PC BOARD

Component Side View

DOLBY UNIT

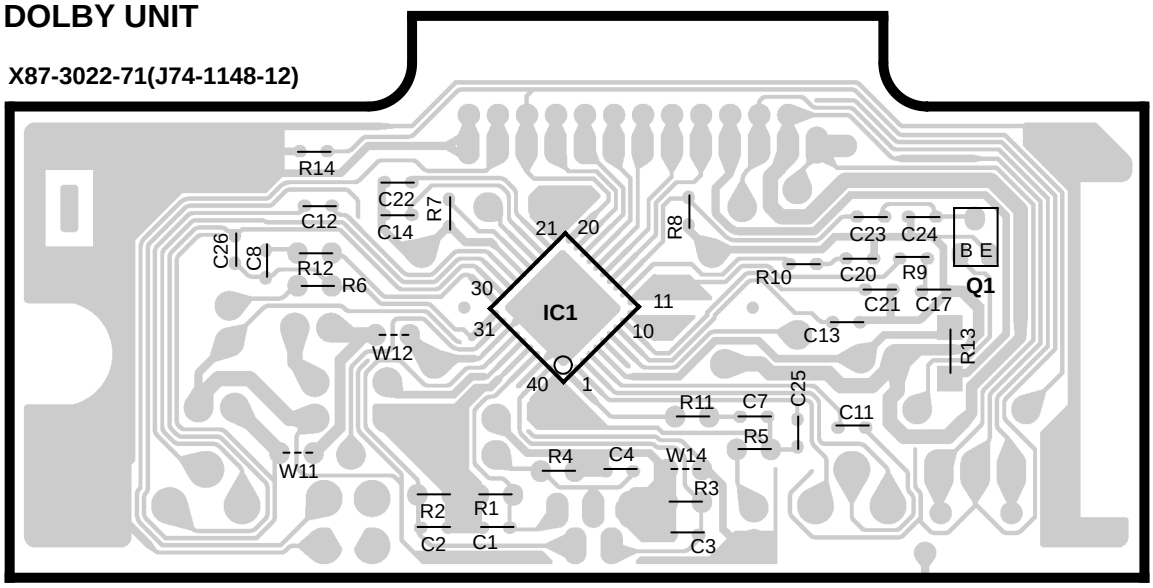
X87-3022-71 (J74-1148-12)



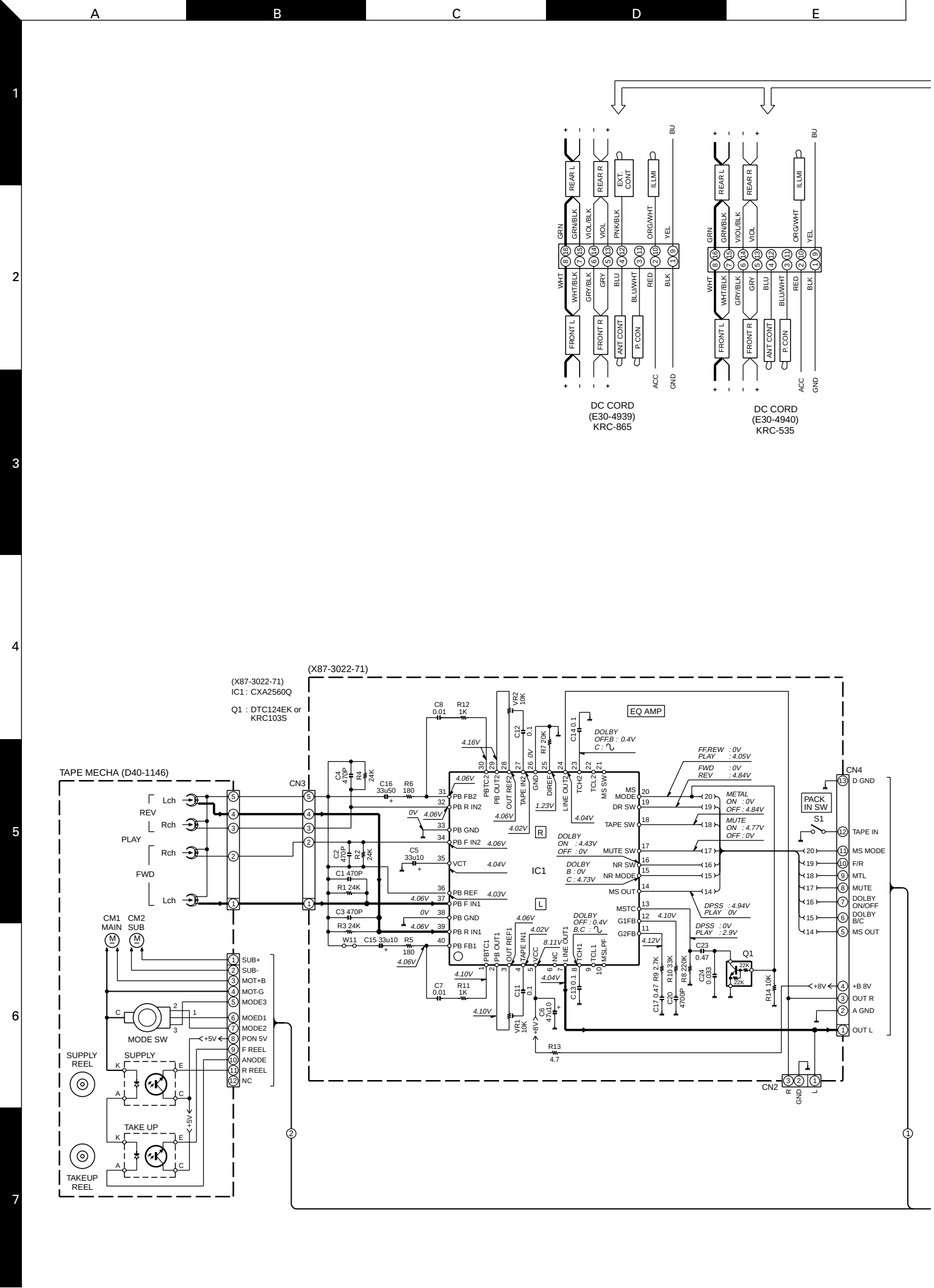
Foil Side View

DOLBY UNIT

X87-3022-71(J74-1148-12)



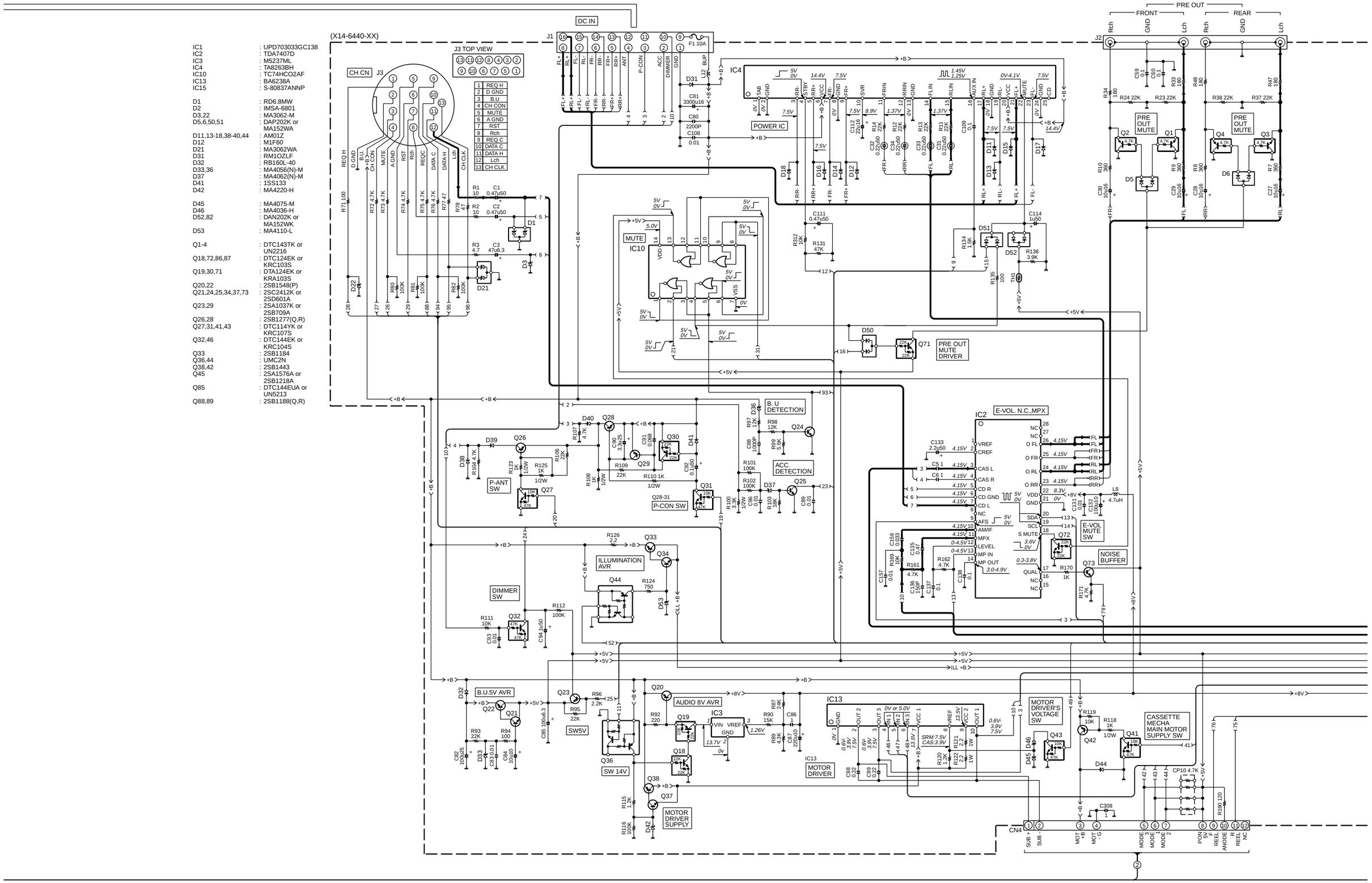
Refer to the schematic diagram for the values of resistors and capacitors.

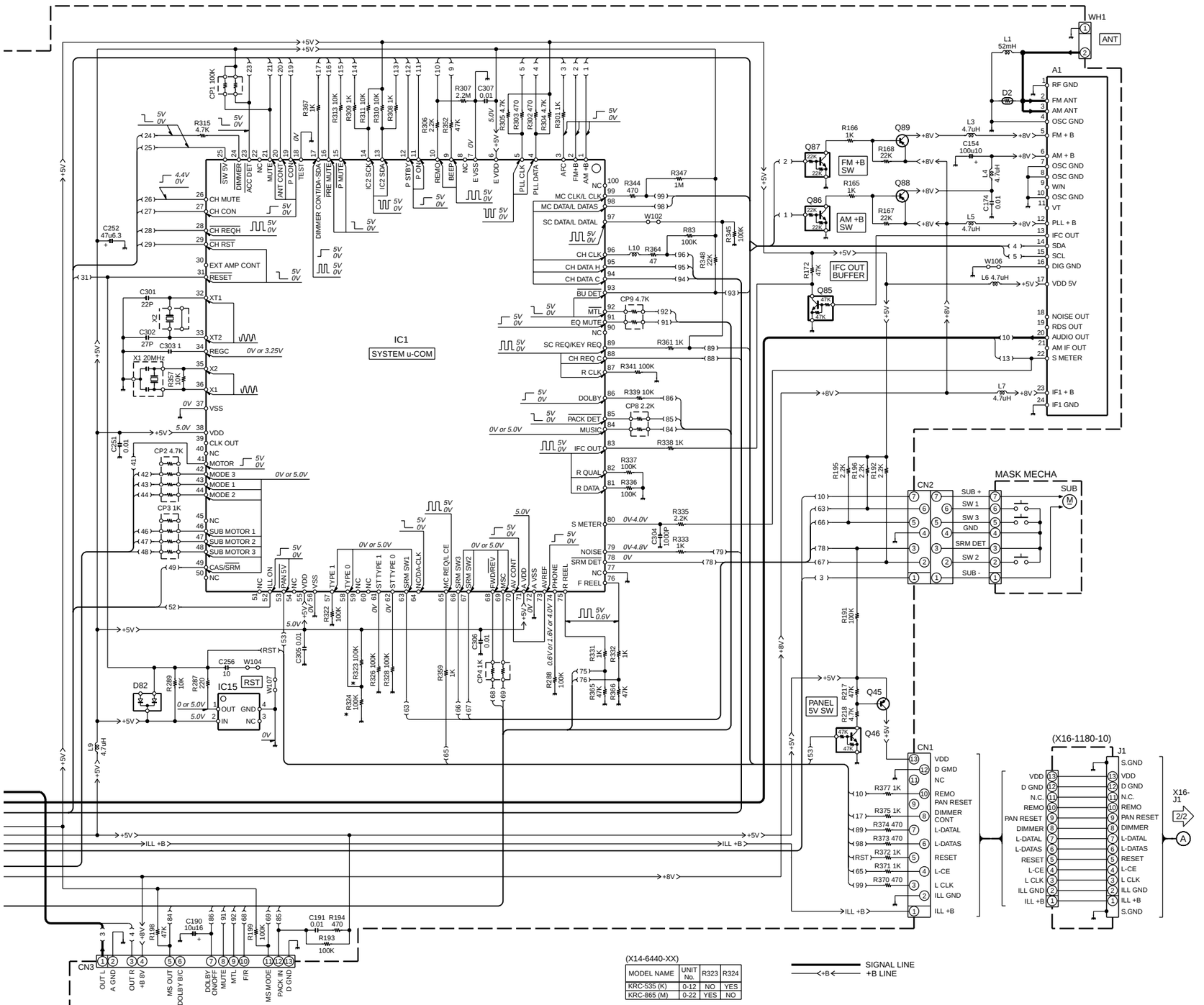

(X87-3022-71)
IC1 : CXA2560Q
Q1 : DTC124EK or KRC103S
TAPE MECHA (D40-1146)
CN3
CN4
CN2
IC1
EQ AMP
REV
PLAY
FWD
Lch
Rch
CM1 MAIN
CM2 SUB
MODE SW
SUPPLY REEL
TAKEUP REEL
SUPPLY
TAKE UP
PACK IN SW
S1
SUB+
SUB-
MOT+B
MOT-G
MODE3
MOED1
MODE2
PON 5V
F REEL
ANODE
R REEL
NC
D GND
TAPE IN
MS MODE
F/R
MTL
MUTE
DOLBY ON/OFF
DOLBY B/C
MS OUT
+B 8V
OUT R
A GND
OUT L
PB FB2
PB R IN2
PB GND
PB F IN2
VCT
PB REF
PB F IN1
PB GND
PB R IN1
PB FB1
MS MODE
DR SW
TAPE SW
MUTE SW
NR SW
NR MODE
MS OUT
MSTC
G1FB
G2FB
METAL ON :0V OFF :4.84V
MUTE ON :4.77V OFF :0V
DPSS :4.94V PLAY 0V
DPSS :0V PLAY :2.9V
FF,REW :0V PLAY :4.05V
FWD :0V REV :4.84V
DOLBY OFF,B : 0.4V C :
DOLBY ON :4.43V OFF :0V
DOLBY B :0V C :4.73V
DOLBY OFF :0.4V B,C :

REAR L
REAR R
EXT. CONT
ILLMI
FRONT L
FRONT R
ANT CONT
P.CON
ACC
GND
DC CORD (E30-4939) KRC-865
DC CORD (E30-4940) KRC-535

F G H I J K L M N

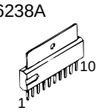
IC1	: UPD703033GC138
IC2	: TDA7407D
IC3	: M5237ML
IC4	: TA8263BH
IC10	: TC74HCO2AF
IC13	: BA6238A
IC15	: S-80837ANNP
D1	: RD6.8MW
D2	: IMSA-6801
D3,22	: MA3062-M
D5,6,50,51	: DAP202K or MA152WA
D11,13-18,38-40,44	: AM01Z
D12	: M1F60
D21	: MA3062WA
D31	: RM1OZLF
D32	: RB160L-40
D33,36	: MA4056(N)-M
D37	: MA4062(N)-M
D41	: 1SS133
D42	: MA4220-H
D45	: MA4075-M
D46	: MA4036-H
D52,82	: DAN202K or MA152WK
D53	: MA4110-L
Q1-4	: DTC143TK or UN2216
Q18,72,86,87	: DTC124EK or KRC103S
Q19,30,71	: DTA124EK or KRA103S
Q20,22	: 2SB1548(P)
Q21,24,25,34,37,73	: 2SC2412K or 2SD601A
Q23,29	: 2SA1037K or 2SB709A
Q26,28	: 2SB1277(Q,R)
Q27,31,41,43	: DTC114YK or KRC107S
Q32,46	: DTC144EK or KRC104S
Q33	: 2SB1184
Q36,44	: UMC2N
Q38,42	: 2SB1443
Q45	: 2SA1576A or 2SB1218A
Q85	: DTC144EUA or UN5213
Q88,89	: 2SB1188(Q,R)





MODEL NAME	UNIT No.	R323	R324
KRC-535 (K)	0-12	NO	YES
KRC-865 (M)	0-22	YES	NO

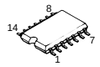
BA6238A



DAN202K

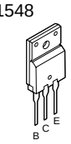
DAP202K

TC74HC02AF

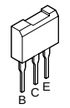


DTA123JK
DTA124EK
DTC114YK
DTC124EK
DTC143TK
DTC143ZK
DTC144EK
KRC103S
UN5213
2SA1576A
2SB1218A
2SB709A
2SC2412K

2SB1548

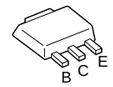


2SB1277
2SB1443



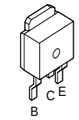
2SA1037K
2SC4081

2SB1188



DTA114EUA
DTC144EUA
KRC104S

2SB1184



M5237ML

UMC2N

KRC-535/865

KENWOOD

(X16-1540-XX)

(X16-154X-XX)

MODEL NAME	UNIT No.	D26	ED1
KRC-535 (K) KRC-791Y (E2)	0-11	MA3091-M	B38-1086-05
KRC-865 (M)	0-12	MA3082-M	B38-1088-05
KRC-791 (E)	2-72	MA3091-M	B38-1086-05

IC1 : LC75808W
IC2 : RS-171

Q1,6 : DTA114EUA or KRA302
Q3-5 : 2SC4081
Q7 : *

D1-4 : B30-1632-05
D5-22 : B30-1605-05
D23-25 : B30-1564-05

GND LINE
+B LINE

*ED1

J1
S.GND
ILL+B
ILLUM G
L CLK
L CE
RESET
L DATAS
L DATAL
DIMMER
NC
REMO
NC
D GND
VDD
S.GND

X16-118 J1 1/2

CP1 470
R8 22K
R12 750
Q5 AVR
*D26
S3 RST
Q1
KEY SCAN SW
CP2 1K
CP3 1K
R14 1K
R10 1K
IC2
REMOTE SENSOR IC
Q6 REMO SW
R9 100
C7 2.2
R11 4.7
C6 2.2
C5 0.1
R6 3.9K
R7 22K
C4 0.1
C3 0.1
C2 0.1
C1 680P
R1 43K
R5 2.2K
R4 2.2K
R3 2.2K
R2 2.2K

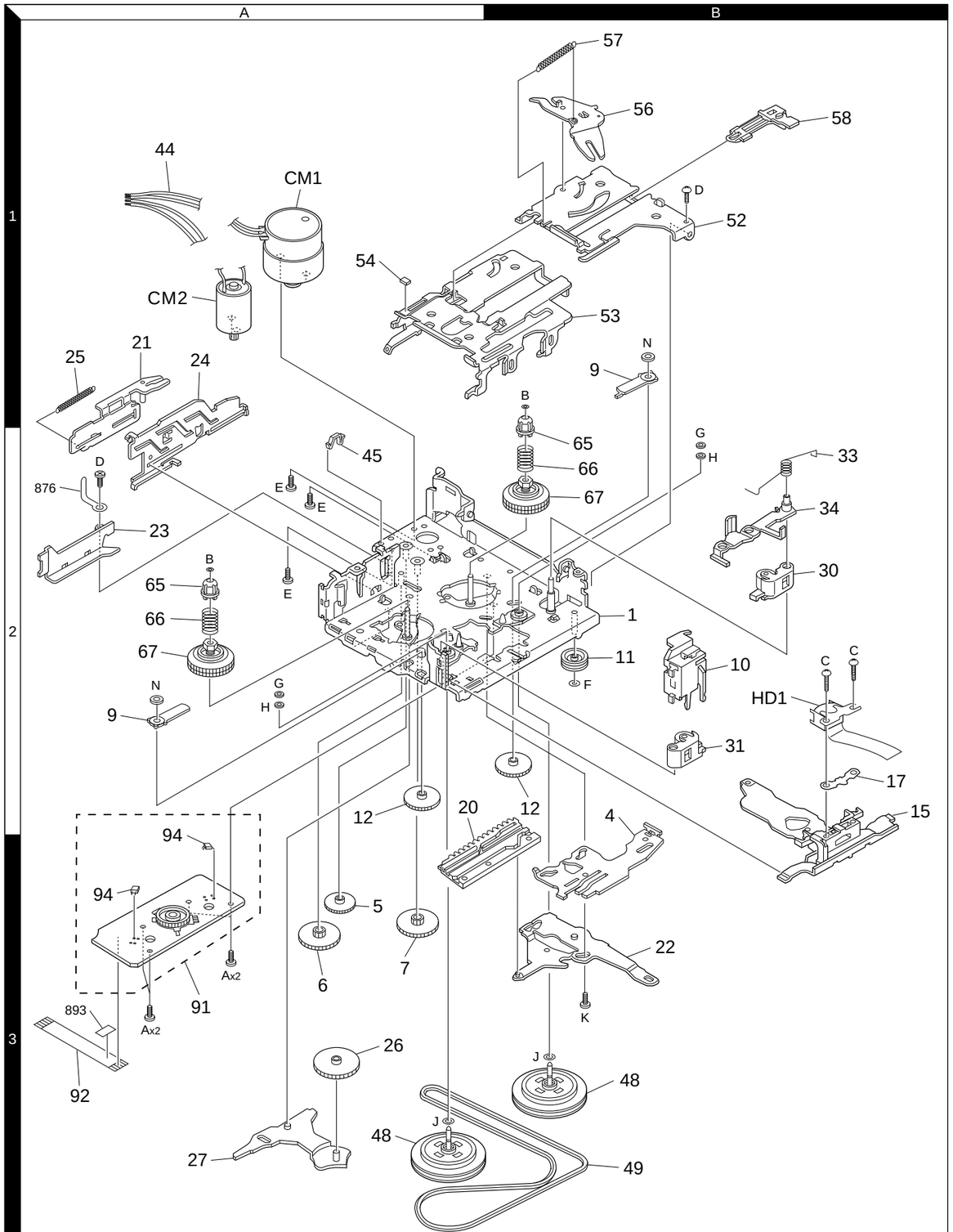
IC1
LCD DRIVER

RED LED SW
GREEN LED SW
DIMMER SW
Q3
Q4
Q7
R15 10K
R16 10K
R27 10K
R28 10K
R25 1.2K
R29 1.2K
R24 330
C9 0.01
C11 0.01
C12 0.01
C13 0.01
C14 0.01
R17 330
R18 330
R19 330
R20 330
R21 330
R22 510
R23 270
D1 D2 D3 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D20 D21 D22 D23 D24

VOL+ VOL- 1 2 3 4 5 6 SRC OPEN DISP ATT AM AUD FM TI EJECT CLK

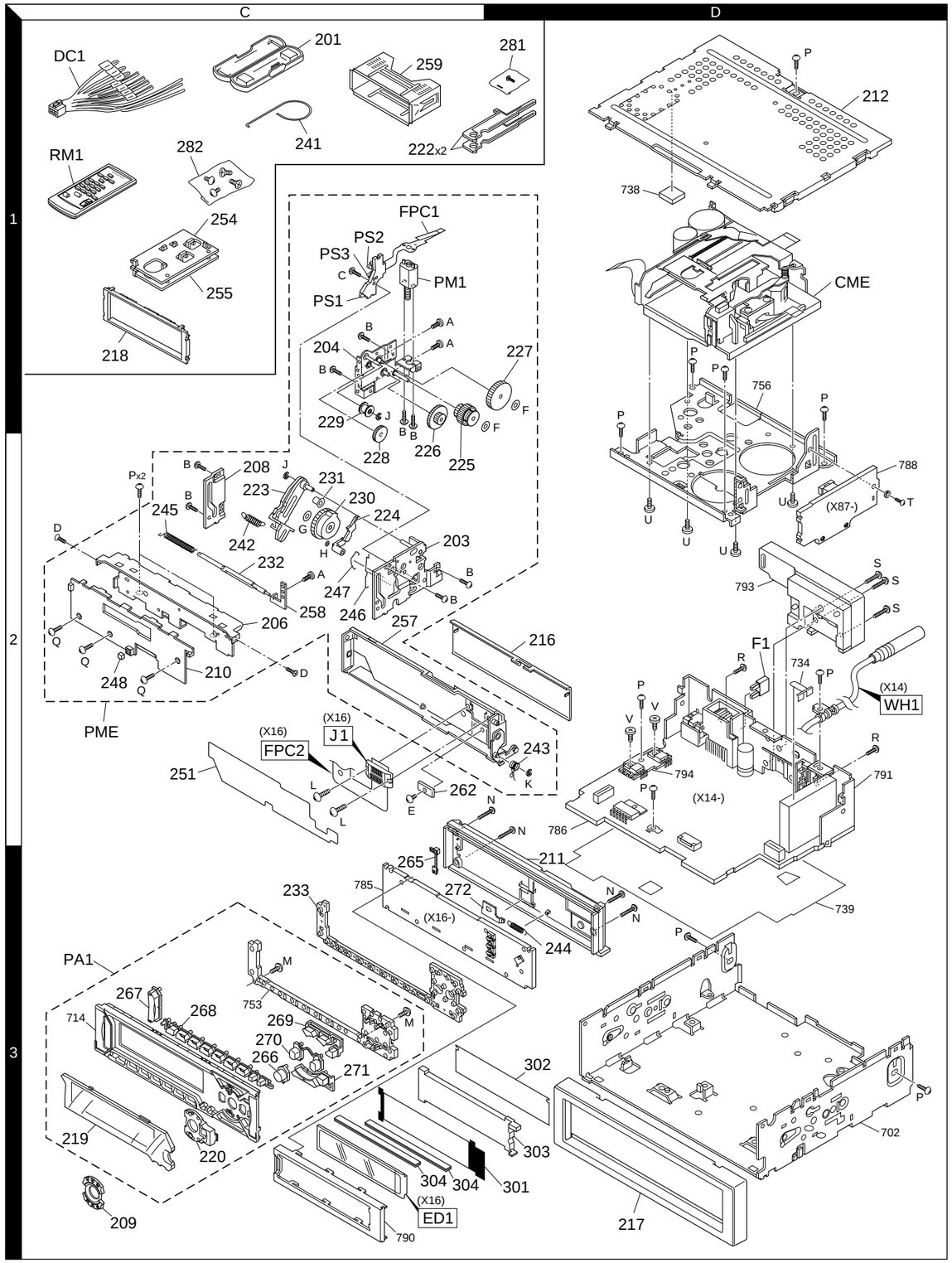
KRC-535/865

EXPLODED VIEW (MECHANISM)



Parts with exploded numbers larger than 700 are not suppied.

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not suppied.

PARTS LIST

∗ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohane Parts No. werden nicht geliefert.

The language of an instruction manual.

E : ENG **F** : FRE **P** : POR **H** : HUN **O** : POL
T : CHI **G** : GER **D** : DUT **C** : CRO **Z** : CZE
A : ARA **S** : SPA **I** : ITA **R** : RUS **L** : SLO

Ref.No.	Add	New	Parts No.	Description	Destination
KRC-535/865					
201	1C		A02-1497-13	PLASTIC CABINET ASSY	
203	2C		A10-4807-13	CHASSIS CALKING ASSY	
204	1C		A10-4810-13	CHASSIS CALKING ASSY	
206	2C		A10-4834-02	CHASSIS	
208	2C		A10-4893-04	CHASSIS CALKING ASSY	
209	3C		A21-4171-03	DRESSING PANEL	
210	2C		A22-2867-03	SUB PANEL ASSY	
211	3D		A46-1753-01	REAR COVER	
212	1D		A52-0784-02	TOP PLATE	
PA1	3C	*	A64-2573-02	PANEL ASSY	K
PA1	3C	*	A64-2574-02	PANEL ASSY	M1
PME	2C		A10-4814-22	CHASSIS ASSY	
RM1	1C		A70-2025-05	REMOTE CONTROLLER ASSY	
216	2C		B03-3073-12	DRESSING PLATE	
217	3D		B07-3007-03	ESCUTCHEON ASSY	
218	1C		B07-3010-02	ESCUTCHEON	K,M1
219	3C	*	B10-4153-01	FRONT GLASS	K
219	3C	*	B10-4154-01	FRONT GLASS	M1
220	3C		B10-4222-03	FRONT GLASS	
-			B46-0100-50	WARRANTY CARD	K,M1
-			B46-0606-04	ID CARD	K
-			B46-0612-14	ID CARD	M1
-			B46-0645-03	USER CARD	K
-			B58-1380-04	CAUTION CARD	
-		*	B64-2154-00	INSTRUCTION MANUAL E,F,S	K
-		*	B64-2155-00	INSTRUCTION MANUAL E,T	M1
-		*	B64-2156-00	INSTRUCTION MANUAL A	M1
222	1C		D10-4562-04	LEVER	
223	2C		D10-4563-04	ARM ASSY	
224	2C		D10-4590-04	ARM	
225	2C		D13-2135-04	GEAR ASSY	
226	2C		D13-2138-04	GEAR	
227	1D		D13-2139-04	GEAR	
228	2C		D13-2140-04	GEAR	
229	1C		D13-2141-14	GEAR ASSY	
230	2C		D13-2165-03	GEAR ASSY	
231	2C		D14-0754-04	ROLLER	
232	2C		D14-0760-03	ROLLER	
CME	1D		D40-1146-05	CASSETTE MECHANISM ASSY	
233	3C		E29-1879-02	CONDUCTIVE RUBBER	
⚠ DC1	1C		E30-4939-05	DC CORD	M1
⚠ DC1	1C		E30-4940-05	DC CORD	K
⚠ F1	2D		F52-0006-05	FUSE(MINI BLADE TYPE)	
241	1C		G01-2924-04	TORSION COIL SPRING	
242	2C		G01-3065-04	EXTENSION SPRING	
243	2D		G01-3066-14	TORSION COIL SPRING	
244	3D		G01-3069-04	EXTENSION SPRING	
245	2C		G01-3080-04	TORSION COIL SPRING	
246	2C		G09-2038-04	FORMED WIRE	
247	2C		G09-2042-04	FORMED WIRE	

Ref.No.	Add	New	Parts No.	Description		Destination
248	2C		G11-1927-04	CUSHION		
251	2C		G16-1177-04	SHEET		
-			H10-4768-12	POLYSTYRENE FOAMED FIXTURE		K,M1
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0337-04	PROTECTION BAG (180X300X0.03)		
-			H25-1108-04	PROTECTION BAG (100X300X0.03)		
-			H30-0544-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H54-2328-03	ITEM CARTON CASE		K
-		*	H54-2331-03	ITEM CARTON CASE		M1
254	1C		J19-5051-03	BRACKET (J-CAR/L)		
255	1C		J19-5052-03	BRACKET (J-CAR/R)		
257	2C		J21-9651-13	MOUNTING HARDWARE ASSY		
258	2C		J21-9699-04	MOUNTING HARDWARE		
259	1C		J21-9716-03	MOUNTING HARDWARE ASSY		
262	2C		J90-0999-04	GUIDE		
FPC1	1C		J84-0122-04	FLEXIBLE PRINTED WIRING BOARD		
265	3C		K24-3646-04	KNOB	OPEN	
266	3C		K24-3835-04	KNOB	SRC	
267	3C		K25-1404-03	KNOB	VOL	
268	3C		K25-1405-02	KNOB	1-6	
269	3C		K25-1406-03	KNOB	FM,AM	
270	3C		K25-1407-03	KNOB	PROG	
271	3C		K25-1408-03	KNOB	UP,DOWN	
272	3C		K29-7017-03	KNOB	LOCK	
281	1D		N99-1704-05	SCREW SET		
282	1C		N99-1722-05	SCREW SET		K,M1
A	2C		N09-4400-05	MACHINE SCREW		
B	2C		N09-4401-05	MACHINE SCREW		
C	1C		N09-4427-05	TAPTITE SCREW		
D	2C		N09-4448-05	MACHINE SCREW		
E	2C		N09-4449-05	MACHINE SCREW		
F	1D		N19-2154-04	FLAT WASHER		
G	2C		N19-2155-04	FLAT WASHER		
H	2C		N19-2156-04	FLAT WASHER		
J	2C		N29-0522-05	RETAINING RING		
K	2D		N29-0523-05	RETAINING RING		
L	2C		N38-2025-46	PAN HEAD MACHIN SCREW		
M	3C		N80-2005-46	PAN HEAD TAPTITE SCREW		
N	3D		N80-2008-45	PAN HEAD TAPTITE SCREW		
P	1D		N83-3005-46	PAN HEAD TAPTITE SCREW		
Q	2C		N86-2004-45	BINDING HEAD TAPTITE SCREW		
T	2D		N09-4377-05	TAPTITE SCREW (2X5S SW C-MECH)		
U	2D		N09-4368-05	MACHINE SCREW (C-MECHA.)		
PS1-3	1C		S68-0856-05	PUSH SWITCH		
PM1	1C		T42-1034-04	MOTOR ASSY		
SYNTHESIZER UNIT (X14-6440-XX)						
C1,2			C90-2606-05	ELECTRO	0.47UF 50WV	
C3			CE04CW0J470M	ELECTRO	47UF 6.3WV	
C5,6			CK73GB0J105K	CHIP C	1.0UF K	
C27-30			C90-2597-05	ELECTRO	10UF 16WV	
C31-34			C90-5297-05	NP-ELECT	0.22UF 50WV	
C59,60			CK73FB1H104K	CHIP C	0.10UF K	
C80			CK73GB1H222K	CHIP C	2200PF K	

K: KRC-535 **M1:** KRC-865

⚠ indicates safety critical components.

PARTS LIST

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SYNTHESIZER UNIT (X14-6440-XX)

Ref.No.	Add	New	Parts No.	Description	Destination
C81			C90-5242-05	ELECTRO 3300UF 16WV	
C82			CE04CW1E101M	ELECTRO 100UF 25WV	
C83			CK73GB1H103K	CHIP C 0.010UF K	
C84			C90-2594-05	ELECTRO 10UF 10WV	
C85			CE04CW0J101M	ELECTRO 100UF 6.3WV	
C86			CK73FB1C105K	CHIP C 1.0UF K	
C87			CE04CW1A221M	ELECTRO 220UF 10WV	
C88			CK73GB1H102K	CHIP C 1000PF K	
C89			CK73GB1H103K	CHIP C 0.010UF K	
C90			C90-2598-05	ELECTRO 3.3UF 25WV	
C91			CK73GB1C683K	CHIP C 0.068UF K	
C91			CK73GB1H683K	CHIP C 0.068UF K	
C92			C90-2602-05	ELECTRO 0.10UF 50WV	
C93			CK73GB1H103K	CHIP C 0.010UF K	
C94			C90-2608-05	ELECTRO 1.0UF 50WV	
C96			CK73GB1H103K	CHIP C 0.010UF K	K,M1
C98,99			CK73FB1C224K	CHIP C 0.22UF K	
C108			CK73GB1H103K	CHIP C 0.010UF K	
C109			CK73GB1C104K	CHIP C 0.10UF K	
C109			CK73GB1H104K	CHIP C 0.10UF K	
C111			C90-2606-05	ELECTRO 0.47UF 50WV	
C112			CE04CW1C220M	ELECTRO 22UF 16WV	
C114			C90-2608-05	ELECTRO 1.0UF 50WV	
C131			CK73GB1H103K	CHIP C 0.010UF K	
C132			CE04CW1A101M	ELECTRO 100UF 10WV	
C133			C90-2610-05	ELECTRO 2.2UF 50WV	
C135			CK73GB1A474K	CHIP C 0.47UF K	
C136			CC73GCH1H151J	CHIP C 150PF J	
C137,138			CK73GB1C104K	CHIP C 0.10UF K	
C137,138			CK73GB1H104K	CHIP C 0.10UF K	
C154			CE04DW1A101M	ELECTRO 100UF 10WV	
C156			CK73GB1E333K	CHIP C 0.033UF K	
C156			CK73GB1H333K	CHIP C 0.033UF K	
C157			CK73GB1H103K	CHIP C 0.010UF K	
C174			CK73GB1H103K	CHIP C 0.010UF K	K,M1
C190			C90-2597-05	ELECTRO 10UF 16WV	
C191			CK73GB1H103K	CHIP C 0.010UF K	
C251			CK73GB1H103K	CHIP C 0.010UF K	
C252			CE04CW0J470M	ELECTRO 47UF 6.3WV	
C256			CK73EB0J106K	CHIP C 10UF K	
C301			CC73GCH1H220J	CHIP C 22PF J	
C302			CC73GCH1H270J	CHIP C 27PF J	
C303			CK73GB0J105K	CHIP C 1.0UF K	
C304			CK73GB1H102K	CHIP C 1000PF K	
C305-307			CK73GB1H103K	CHIP C 0.010UF K	
C308			CK73GB0J105K	CHIP C 1.0UF K	
CN1			E40-9557-05	FLAT CABLE CONNECTOR	
CN2			E40-5031-05	FLAT CABLE CONNECTOR	
CN3			E41-0084-05	PIN ASSY	
CN4			E40-5036-05	FLAT CABLE CONNECTOR	
⚠ J1			E58-0863-15	RECTANGULAR RECEPTACLE	
J2			E63-0853-05	PIN JACK	
J3			E56-0834-05	CYLINDRICAL RECEPTACLE	
P1			E23-0745-05	TERMINAL	

Ref.No.	Add	New	Parts No.	Description	Destination
WH1	2D		E30-4804-05	CORD WITH PLUG	
WH1	2D		E30-4932-05	CORD WITH PLUG	
L1			L33-1039-05	LINE FILTER COIL	
L3,4			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
L5			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	
L6			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
L7			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)	
L8,9			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
L10			L92-0075-05	CHIP FERRITE	
L12			L33-1170-05	CHOKE COIL ASSY	
X1			L78-0821-05	RESONATOR	
X2			L77-2738-05	CRYSTAL RESONATOR	
P	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
R	2D		N80-3008-46	PAN HEAD TAPTITE SCREW	
S	2D		N84-3014-46	PAN HEAD TAPTITE SCREW	
V	2D		N09-4318-05	MACHINE SCREW (M3X5)	
CP1			R90-0737-05	MULTI-COMP 100K X2	
CP2			R90-0718-05	MULTI-COMP 4.7K X4	
CP3			R90-0724-05	MULTI-COMP 1K X4	
CP4			R90-0725-05	MULTI-COMP 1K X2	
CP8,9			R90-0719-05	MULTI-COMP 4.7K X2	
CP10			R90-0718-05	MULTI-COMP 4.7K X4	
R1,2			RK73EB2E100J	CHIP R 10 J 1/4W	
R3			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R7-10			RK73GB2A361J	CHIP R 360 J 1/10W	
R11-14			RK73GB2A223J	CHIP R 22K J 1/10W	
R23,24			RK73GB2A223J	CHIP R 22K J 1/10W	
R33,34			RK73FB2B181J	CHIP R 180 J 1/8W	
R37,38			RK73GB2A223J	CHIP R 22K J 1/10W	
R47,48			RK73FB2B181J	CHIP R 180 J 1/8W	
R71			RK73EB2E101J	CHIP R 100 J 1/4W	
R72-76			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R77,78			RK73EB2E470J	CHIP R 47 J 1/4W	
R80-83			RK73GB2A104J	CHIP R 100K J 1/10W	
R87			R92-3047-05	CHIP R 24K D 1/10W	
R89			R92-3032-05	CHIP R 4.3K D 1/10W	
R90			RK73GB2A153J	CHIP R 15K J 1/10W	
R92			RK73EB2E221J	CHIP R 220 J 1/4W	
R93			RK73GB2A223J	CHIP R 22K J 1/10W	
R94			RK73GB2A101J	CHIP R 100 J 1/10W	
R95			RK73GB2A223J	CHIP R 22K J 1/10W	
R96			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R97,98			RK73FB2B123J	CHIP R 12K J 1/8W	
R99			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R100			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
R101,102			RK73EB2E104J	CHIP R 100K J 1/4W	
R103			RK73GB2A183J	CHIP R 18K J 1/10W	
R104			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R106			RK73FB2B223J	CHIP R 22K J 1/8W	K,M1
R107			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R108			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R109			RK73FB2B223J	CHIP R 22K J 1/8W	
R110			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	

K: KRC-535 **M1:** KRC-865

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SYNTHESIZER UNIT (X14-6440-XX)

Ref.No.	Add	New	Parts No.	Description				Destination
R111			RK73EB2E103J	CHIP R	10K	J	1/4W	
R112			RK73GB2A104J	CHIP R	100K	J	1/10W	
R114			RK73FB2B561J	CHIP R	560	J	1/8W	M1
R115			RK73FB2B122J	CHIP R	1.2K	J	1/8W	
R116			RK73GB2A104J	CHIP R	100K	J	1/10W	
R117			RK73EB2E102J	CHIP R	1.0K	J	1/4W	M1
R118			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	
R119			RK73FB2B103J	CHIP R	10K	J	1/8W	
R120			RK73FB2B122J	CHIP R	1.2K	J	1/8W	
R121,122			R92-2104-05	CHIP R	2.2	J	1W	
R123			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	K,M1
R124			RK73FB2B751J	CHIP R	750	J	1/8W	
R125			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	K,M1
R126			RK73EB2E2R2J	CHIP R	2.2	J	1/4W	
R131			RK73GB2A473J	CHIP R	47K	J	1/10W	
R134			RK73GB2A152J	CHIP R	1.5K	J	1/10W	
R135			RK73FB2B101J	CHIP R	100	J	1/8W	
R136			RK73FB2B392J	CHIP R	3.9K	J	1/8W	
R161,162			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R165,166			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R167,168			RK73GB2A223J	CHIP R	22K	J	1/10W	
R169			RK73GB2A103J	CHIP R	10K	J	1/10W	
R170			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R171			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R172			RK73GB2A473J	CHIP R	47K	J	1/10W	
R190			RK73FB2B121J	CHIP R	120	J	1/8W	
R191			RK73GB2A104J	CHIP R	100K	J	1/10W	
R192			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R193			RK73GB2A104J	CHIP R	100K	J	1/10W	
R194			RK73FB2B471J	CHIP R	470	J	1/8W	
R195,196			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R198			RK73GB2A473J	CHIP R	47K	J	1/10W	
R199			RK73GB2A104J	CHIP R	100K	J	1/10W	
R217			RK73GB2A473J	CHIP R	47K	J	1/10W	
R218			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R287			RK73GB2A221J	CHIP R	220	J	1/10W	
R288			RK73GB2A104J	CHIP R	100K	J	1/10W	K,M1
R289			RK73GB2A103J	CHIP R	10K	J	1/10W	
R301			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R302,303			RK73GB2A471J	CHIP R	470	J	1/10W	
R304,305			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R306			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R307			RK73GB2A225J	CHIP R	2.2M	J	1/10W	
R308,309			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R310-313			RK73GB2A103J	CHIP R	10K	J	1/10W	
R315			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R322			RK73GB2A104J	CHIP R	100K	J	1/10W	K
R322,323			RK73GB2A104J	CHIP R	100K	J	1/10W	M1
R324			RK73GB2A104J	CHIP R	100K	J	1/10W	K
R326			RK73GB2A104J	CHIP R	100K	J	1/10W	
R328			RK73GB2A104J	CHIP R	100K	J	1/10W	
R331-333			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R335			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R336,337			RK73GB2A104J	CHIP R	100K	J	1/10W	K,M1
R338			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R339			RK73GB2A103J	CHIP R	10K	J	1/10W	
R341			RK73GB2A104J	CHIP R	100K	J	1/10W	K,M1
R344			RK73GB2A471J	CHIP R	470	J	1/10W	
R345			RK73GB2A104J	CHIP R	100K	J	1/10W	
R347			RK73GB2A105J	CHIP R	1.0M	J	1/10W	
R348			RK73GB2A223J	CHIP R	22K	J	1/10W	
R352			RK73GB2A473J	CHIP R	47K	J	1/10W	
R357			RK73GB2A103J	CHIP R	10K	J	1/10W	
R359			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R361			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R364			RK73GB2A470J	CHIP R	47	J	1/10W	
R365,366			RK73GB2A473J	CHIP R	47K	J	1/10W	
R367			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R370			RK73EB2E471J	CHIP R	470	J	1/4W	
R371,372			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R373,374			RK73EB2E471J	CHIP R	470	J	1/4W	
R375			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R377			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
W102			R92-1252-05	CHIP R	0 OHM	J	1/16W	K,M1
W104			R92-1252-05	CHIP R	0 OHM	J	1/16W	K,M1
W106			R92-2052-05	CHIP R	0 OHM	J	1/10W	
W107			R92-1252-05	CHIP R	0 OHM	J	1/16W	
D1			RD6.8MW	ZENER DIODE				
D2			IMSA-6801	SURGE ABSORBER				
D3			HZM6.2N(B2)	ZENER DIODE				
D3			MA3062-M	ZENER DIODE				
D5,6			DAP202K	DIODE				
D11			AM01Z	DIODE				
D11			DSM1SD2	DIODE				
D11			ERA15-02	DIODE				
D12			M1F60	DIODE				
D13-18			AM01Z	DIODE				
D13-18			DSM1SD2	DIODE				
D13-18			ERA15-02	DIODE				
D21			MA3062WA	ZENER DIODE				
D22			HZM6.2N(B2)	ZENER DIODE				
D22			MA3062-M	ZENER DIODE				
D31			RM10ZLF	DIODE				
D32			RB160L-40	DIODE				
D33			MA4056(N)-M	ZENER DIODE				
D36			MA4056(N)-M	ZENER DIODE				
D37			MA4062(N)-M	ZENER DIODE				
D38-40			AM01Z	DIODE				
D38-40			1SR139-400	DIODE				
D41			1SS133	DIODE				
D42			HZS223	ZENER DIODE				
D42			MA4220-H	ZENER DIODE				
D43			HZS6B1	ZENER DIODE				M1
D43			MA4056-M	ZENER DIODE				M1
D44			AM01Z	DIODE				
D44			DSM1SD2	DIODE				
D44			ERA15-02	DIODE				
D45			HZS7C2	ZENER DIODE				
D45			MA4075-M	ZENER DIODE				

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SYNTHESIZER UNIT (X14-6440-XX)
SUB CIRCUIT UNIT (X16-1180-10)
SWITCH UNIT (X16-1540-XX)

Ref.No.	Add	New	Parts No.	Description	Destination
D46			HZS4A3	ZENER DIODE	
D46			MA4036-H	ZENER DIODE	
D50,51			DAP202K	DIODE	
D52			DAN202K	DIODE	
D53			HZS11B2	ZENER DIODE	
D53			MA4110-L	ZENER DIODE	
D82			DAN202K	DIODE	
IC1			UPD703033GC138	MI-COM IC	
IC2			TDA7407D	ANALOGUE IC	
IC3			M5237ML	IC(VOLTAGE REGULATOR)	
IC4			TA8273H	ANALOGUE IC	
IC10			HD74HC02FP	MOS-IC	
IC10			TC74HC02AF	MOS-IC	
IC13			BA6238A	ANALOGUE IC	
IC15			S-80837ANNP	MOS-IC	
Q1-4			DTC143TK	DIGITAL TRANSISTOR	
Q1-4			UN2216	DIGITAL TRANSISTOR	
Q18			DTC124EK	DIGITAL TRANSISTOR	
Q18			KRC103S	DIGITAL TRANSISTOR	
Q19			DTA124EK	DIGITAL TRANSISTOR	
Q19			KRA103S	DIGITAL TRANSISTOR	
Q20			2SB1548(P)	TRANSISTOR	
Q21			2SC2412K	TRANSISTOR	
Q21			2SD601A	TRANSISTOR	
Q22			2SB1548(P)	TRANSISTOR	
Q23			2SA1037K	TRANSISTOR	
Q23			2SB709A	TRANSISTOR	
Q24,25			2SC2412K	TRANSISTOR	
Q24,25			2SD601A	TRANSISTOR	
Q26			2SB1277(Q,R)	TRANSISTOR	K,M1
Q27			DTC114YK	DIGITAL TRANSISTOR	K,M1
Q27			KRC107S	DIGITAL TRANSISTOR	K,M1
Q28			2SB1277(Q,R)	TRANSISTOR	
Q29			2SA1037K	TRANSISTOR	
Q29			2SB709A	TRANSISTOR	
Q30			DTA124EK	DIGITAL TRANSISTOR	
Q30			KRA103S	DIGITAL TRANSISTOR	
Q31			DTC114YK	DIGITAL TRANSISTOR	
Q31			KRC107S	DIGITAL TRANSISTOR	
Q32			DTC144EK	DIGITAL TRANSISTOR	
Q32			KRC104S	DIGITAL TRANSISTOR	
Q33			2SB1184	TRANSISTOR	
Q34			2SC2412K	TRANSISTOR	
Q34			2SD601A	TRANSISTOR	
Q36			UMC2N	TRANSISTOR	
Q37			2SC2412K	TRANSISTOR	
Q37			2SD601A	TRANSISTOR	
Q38			2SB1443	TRANSISTOR	
Q39			DTA123JK	DIGITAL TRANSISTOR	M1
Q39			KRA105S	DIGITAL TRANSISTOR	M1
Q41			DTC114YK	DIGITAL TRANSISTOR	
Q41			KRC107S	DIGITAL TRANSISTOR	
Q42			2SB1443	TRANSISTOR	
Q43			DTC114YK	DIGITAL TRANSISTOR	
Q43			KRC107S	DIGITAL TRANSISTOR	
Q44			UMC2N	TRANSISTOR	
Q45			2SA1576A	TRANSISTOR	
Q45			2SB1218A	TRANSISTOR	
Q46			DTC144EK	DIGITAL TRANSISTOR	
Q46			KRC104S	DIGITAL TRANSISTOR	
Q71			DTA124EK	DIGITAL TRANSISTOR	
Q71			KRA103S	DIGITAL TRANSISTOR	
Q72			DTC124EK	DIGITAL TRANSISTOR	
Q72			KRC103S	DIGITAL TRANSISTOR	
Q73			2SC2412K	TRANSISTOR	
Q73			2SD601A	TRANSISTOR	
Q85			DTC144EUA	DIGITAL TRANSISTOR	
Q85			UN5213	DIGITAL TRANSISTOR	
Q86,87			DTC124EK	DIGITAL TRANSISTOR	
Q86,87			KRC103S	DIGITAL TRANSISTOR	
Q88,89			2SB1188(Q,R)	TRANSISTOR	
TH1			PTH9C42BD471Q	POSITIVE RESISTOR	
A1			X86-3240-11	TUNER UNIT	K,M1

SUB CIRCUIT UNIT (X16-1180-10)

J1	2C		E58-0903-05	RECTANGULAR RECEPTACLE				
FPC2	2C		J84-0121-12	FLEXIBLE PRINTED WIRING BOARD				

SWITCH UNIT (X16-1540-XX)

301	3C		B11-1324-04	OPTICAL DIFFUSER				
302	3C		B11-1347-04	REFLECTION SHEET				
303	3C		B19-2134-03	LIGHTING BOARD				
D1-3			B30-1571-05	LED(WHITE)				K
D1,2			B30-1571-05	LED(WHITE)				M1
D5-18			B30-1605-05	LED(2COLOR PG/RED)				
D20-22			B30-1605-05	LED(2COLOR PG/RED)				
D23,24			B30-1564-05	LED(1608,BLUE)				
ED1	3C		B38-1086-05	LIQUID CRYSTAL				K
ED1	3C		B38-1088-05	LIQUID CRYSTAL				M1
C1			CC73GCH1H681J	CHIP C	680PF	J		
C2-5			CK73GB1C104K	CHIP C	0.10UF	K		
C2-5			CK73GB1H104K	CHIP C	0.10UF	K		
C6,7			CK73FB1A225K	CHIP C	2.2UF	K		
C9			CK73GB1H103K	CHIP C	0.010UF	K		K
C11-14			CK73GB1H103K	CHIP C	0.010UF	K		
304	3C		E29-1885-04	CONDUCTIVE RUBBER				
J1			E59-0835-05	RECTANGULAR PLUG				
CP1			R90-1016-05	MULTI-COMP	470 X4			
CP2,3			R90-0724-05	MULTI-COMP	1K X4			
R1			RK73GB2A433J	CHIP R	43K	J	1/10W	
R2-5			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R6			RK73GB2A392J	CHIP R	3.9K	J	1/10W	
R7,8			RK73GB2A223J	CHIP R	22K	J	1/10W	
R9			RK73GB2A101J	CHIP R	100	J	1/10W	
R10			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R11			RK73GB2A4R7J	CHIP R	4.7	J	1/10W	
R12			RK73GB2A361J	CHIP R	360	J	1/10W	

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SWITCH UNIT (X16-1540-XX)
DOLBY UNIT (X87-3022-71)
CASSETTE MECHANISM ASSY (D40-1146-05)

Ref.No.	Add	New	Parts No.	Description				Destination
R13,14			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R15,16			RK73GB2A103J	CHIP R	10K	J	1/10W	
R17-21			RK73FB2B331J	CHIP R	330	J	1/8W	
R22			RK73FB2B511J	CHIP R	510	J	1/8W	
R23			RK73FB2B271J	CHIP R	270	J	1/8W	
R24			RK73FB2B331J	CHIP R	330	J	1/8W	
R25			RK73GB2A122J	CHIP R	1.2K	J	1/10W	K
R27,28			RK73GB2A103J	CHIP R	10K	J	1/10W	
R29			RK73GB2A122J	CHIP R	1.2K	J	1/10W	K
S28			S70-0864-05	TACT SWITCH				
D26			MA3082-M	ZENER DIODE				M1
D26			MA3091-M	ZENER DIODE				K
IC1			LC75808W	MOS-IC				
IC2			RS-171	ANALOGUE IC				
Q1			DTA114EUA	DIGITAL TRANSISTOR				
Q1			KRA302	DIGITAL TRANSISTOR				
Q3-5			2SC4081	TRANSISTOR				
Q6			DTA114EUA	DIGITAL TRANSISTOR				
Q6			KRA302	DIGITAL TRANSISTOR				
Q7			DTC143ZK	DIGITAL TRANSISTOR				
DOLBY UNIT (X87-3022-71)								
C1-4			CC73GCH1H471J	CHIP C	470PF	J		
C5			CE04NW1A330M	ELECTRO	33UF	10WV		
C6			CE04NW1A470M	ELECTRO	47UF	10WV		
C7,8			CK73GB1H103K	CHIP C	0.010UF	K		
C11-14			CK73GB1C104K	CHIP C	0.10UF	K		
C15,16			CE04NW1A330M	ELECTRO	33UF	10WV		
C17			CK73GB1A474K	CHIP C	0.47UF	K		
C20			CK73GB1H472K	CHIP C	4700PF	K		
C23			CK73GB1A474K	CHIP C	0.47UF	K		
C24			CK73GB1E333K	CHIP C	0.033UF	K		
CN2			E40-9218-05	PIN ASSY				
CN3			E40-9701-05	FLAT CABLE CONNECTOR				
CN4			E41-0083-05	PIN ASSY				
R1-4			RK73FB2A243J	CHIP R	24K	J	1/10W	
R5,6			RK73FB2A181J	CHIP R	180	J	1/10W	
R7			RK73GB1J203J	CHIP R	20K	J	1/16W	
R8			RK73GB1J224J	CHIP R	220K	J	1/16W	
R9			RK73GB1J272J	CHIP R	2.7K	J	1/16W	
R10			RK73GB1J333J	CHIP R	33K	J	1/16W	
R11,12			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R13			RK73EB2B4R7J	CHIP R	4.7	J	1/8W	
R14			RK73GB1J103J	CHIP R	10K	J	1/16W	
VR1,2			R12-3100-05	TRIMMING POT.(10K)				
W11,12			R92-2052-05	CHIP R	0 OHM	J	1/10W	
W14			R92-2052-05	CHIP R	0 OHM	J	1/10W	
S1			S40-1140-05	PUSH SWITCH				
IC1			CXA2560Q	ANALOGUE IC				
Q1			DTC124EK	DIGITAL TRANSISTOR				
CASSETTE MECHANISM ASSY (D40-1146-05)								
1	2B		A10-4630-08	CHASSIS ASSY				
4	3B		D10-4375-08	SLIDER (MAIN PLATE)				

Ref.No.	Add	New	Parts No.	Description	Destination
5	3A		D13-1494-08	GEAR (B)	
6	3A		D13-1495-08	GEAR (C)	
7	3A		D13-1496-08	GEAR (D)	
9	1B		D10-4376-08	ARM (P-G PLATE)	
10	2B		J90-0948-08	GUID	
11	2B		D15-0919-08	PULLEY (MID)	
12	2B		D13-1497-08	GEAR (P)	
15	2B		J21-9458-08	MOUNTING HARDWARE (HEAD P-AS)	
17	2B		G02-1332-08	FLAT SPRING (HEAD SP-P)	
20	2A		D13-1498-08	RACK GEAR (OP PLATE A)	
21	1A		D10-4377-08	LEVER (EJ-LEV-A)	
22	3B		D10-4378-08	LEVER (SB.PL-AS)	
23	2A		D10-4379-08	LEVER (OP-PL-HO)	
24	1A		D10-4380-08	LEVER (EJE-LEV-A)	
25	1A		G01-2960-08	TENSION COIL SPRING (E LEV-SP)	
26	3A		D13-1499-08	GEAR (FR)	
27	3A		D10-4381-08	ARM (FR-PLATE)	
30	2B		D10-4382-08	ARM ASSY (PINCH ROLLER F)	
31	2B		D10-4383-08	ARM ASSY (PINCH ROLLER R)	
33	2B		G01-2961-08	TORSION SPRING (SA)	
34	2B		D10-4384-08	ARM (SW)	
44	1A		E39-0425-08	LEAD WIRE (MOTOR)	
45	2A		J11-0632-08	CLAMPER	
48	3B		D01-0613-08	FLYWHEEL ASSY	
49	3B		D16-0616-08	BELT	
52	1B		D10-4385-08	ARM (CASSETTE LIFTER B)	
53	1B		J19-4953-08	CASSETTE HOLDER	
54	1A		G11-1861-08	CUSHION	
56	1B		D10-4386-08	ARM ASSY	
57	1B		G01-2962-08	TENSION COIL SPRING	
58	1B		D10-4387-08	SLIDER	
65	2A		B09-0522-08	REEL CAP	
66	2A		G01-2963-08	COMPRESSION SPRING	
67	2A		D03-0314-08	REEL GEAR ASSY	
91	3A		J26-4043-08	PRINTED WIRING BOARD ASSY	
92	3A		E39-0424-08	FLAT CABLE (FFC-M9)	
94	3A		T95-0245-08	PHOTO COUPLER	
A	3A		N09-4324-08	SCREW (2X2.5)	
B	1B		N19-2136-08	FLAT WASHER (1.55X35)	
C	2B		N09-4325-08	SCREW (2X13ADS)	
D	2A		N09-4326-08	SCREW (2X3)	
E	2A		N09-4058-08	SEMS (2X3AMS)	
F	2B		N19-2038-08	FLAT WASHER (0.85X2.8)	
G	2B		N19-2136-08	FLAT WASHER (1.55X3)	
H	2B		N19-2137-08	FLAT WASHER (2.1X3.5)	
J	3B		N19-2138-08	FLAT WASHER (2.1X3.5)	
K	3B		N09-4327-08	SCREW	
N	1B		N19-2139-08	FLAT WASHER (2.1X4.0)	
CM1	1A		T42-1002-08	MOTOR ASSY (MAIN)	
CM2	1A		T42-1001-08	MOTOR ASSY (SUB A)	
HD1	2B		T31-0226-08	PLAYBACK HEAD	

K: KRC-535 **M1:** KRC-865

⚠ indicates safety critical components.

KRC-535/865

SPECIFICATIONS

● KRC-535

FM tuner section

Frequency range (200kHz space) ..... 87.9MHz - 107.9MHz
Usable sensitivity (S/N : 30dB) ..... 9.3dBf (0.8μV / 75Ω)
Quieting Sensitivity (S/N : 50dB) ..... 15.2dBf (1.6μV / 75Ω)
Frequency response (±3.0dB) ..... 30Hz - 15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 40dB

AM tuner section

Frequency range (10kHz space) ..... 530kHz - 1700kHz
Usable sensitivity (S/N : 20dB) 28dBμ (25μV)

Cassette player section

Tape Speed ..... 4.76cm/sec.
Wow & Flutter (WRMS) 0.08%
Frequency response (±3dB)(70μs) ..... 30Hz - 20kHz
Separation (1kHz) 43dB
Signal to Noise ratio
  Dolby NR OFF 57dB
  Dolby B NR ON 65dB

Audio section

Maximum output power ..... 50W × 4
Full Bandwidth Power ..... 22W × 4
(at less than 1% THD)
Tone action
  Bass ..... 100Hz ±10dB
  Middle ..... 1kHz ±10dB
  Treble ..... 10kHz ±10dB
Preout level / Load (during disc play) .. 1800mV / 10kΩ
Preout impedance ..... ≦600Ω

General

Operating voltage 14.4V
(11 - 16V allowable)
Current consumption 10A
Installation Size (W × H × D) ..... 182 × 53 × 161mm
7-3/16 × 2-1/16 × 6-5/16inch
Weight 3.0lbs (1.4kg)

● KRC-865

FM tuner section

Frequency range
  (50kHz) ..... 87.5MHz - 108.0MHz
  (200kHz) ..... 87.9MHz - 107.9MHz
Usable sensitivity (S/N : 30dB) ..... 9.3dBf (0.8μV / 75Ω)
Quieting Sensitivity (S/N : 50dB) ..... 15.2dBf (1.6μV / 75Ω)
Frequency response (±3.0dB) ..... 30Hz - 15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 40dB

AM tuner section

Frequency range
  (9kHz) ..... 531kHz - 1611kHz
  (10kHz) ..... 530kHz - 1700kHz
Usable sensitivity (S/N : 20dB) 28dBμ (25μV)

Cassette player section

Tape Speed ..... 4.76cm/sec.
Wow & Flutter (WRMS) 0.08%
Frequency response (±3dB)(70μs) ..... 30Hz - 20kHz
Separation (1kHz) 43dB
Signal to Noise ratio
  Dolby NR OFF 57dB
  Dolby B NR ON 65dB

Audio section

Maximum output power ..... 47W × 4
Full Bandwidth Power ..... 22W × 4
(at less than 1% THD)
Tone action
  Bass ..... 100Hz ±10dB
  Middle ..... 1kHz ±10dB
  Treble ..... 10kHz ±10dB
Preout level / Load (during disc play) ..... 1800mV / 10kΩ
Preout impedance ..... ≦600Ω

General

Operating voltage 14.4V
(11 - 16V allowable)
Current consumption 10A
Installation Size (W × H × D) ..... 182 × 53 × 161mm
Weight 1.4kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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